THIS BOOK MUST ALWAYS BE
STOWED WITH THE INSTRUMENT

B.R. 1771 (13) B

COMMON NAVAL RADIO
TEST EQUIPMENT

HANDBOOK FOR
A.P. 61761
"AVO" VALVE TESTER CT. 160
VOLUME 2

—

ABBREVIATED
OPERATING INSTRUCTIONS
AND VALVE DATA

—

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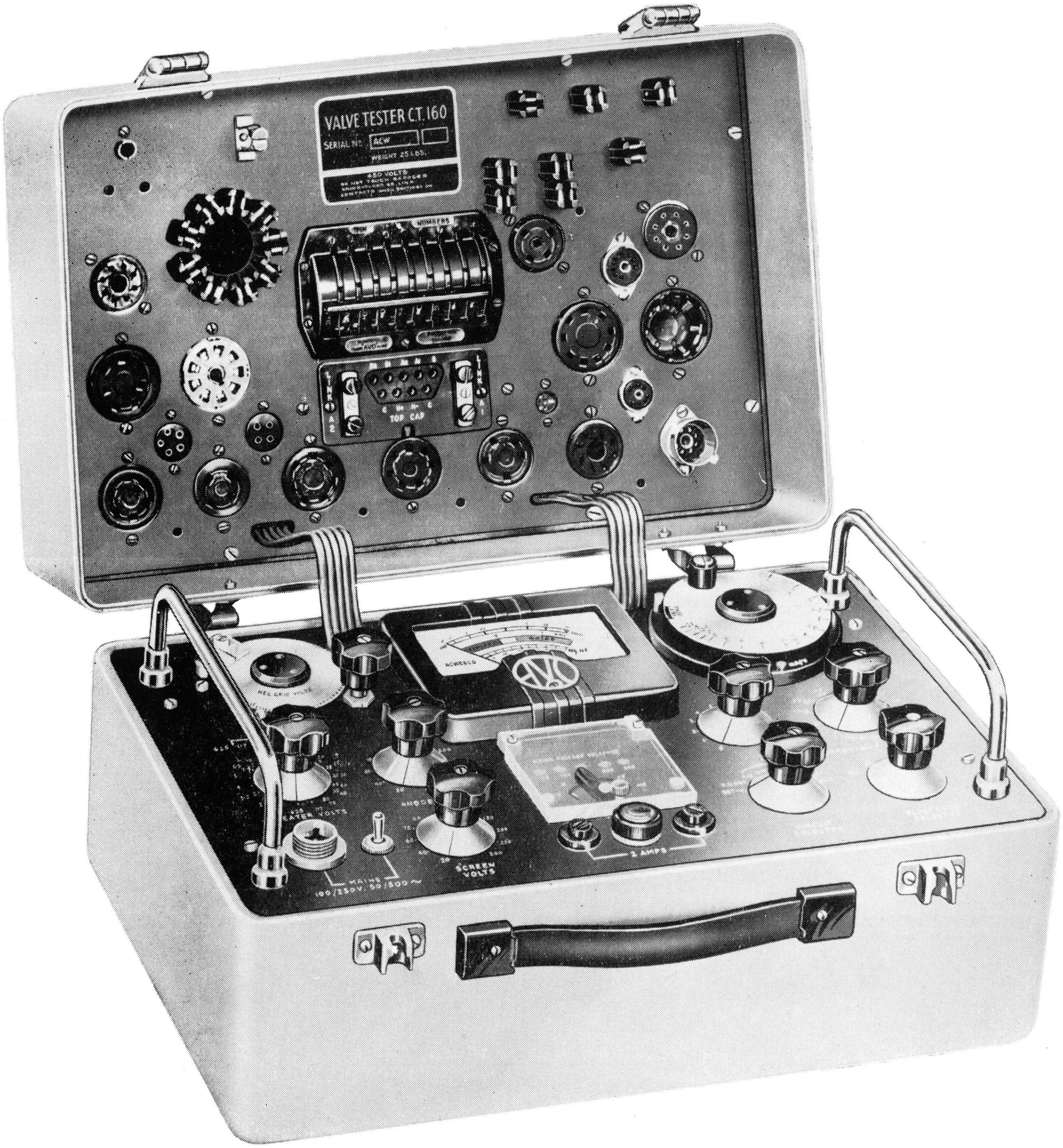
Any suggestions for amendments or additions to this book should be submitted through the usual channels.

RADIO EQUIPMENT DEPARTMENT, ADMIRALTY



THE “AVO” VALVE TESTER CT 160.

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AMENDMENTS.

WHEN AN AMENDMENT TO THIS BOOK IS PROMULGATED THE BRIEF DETAILS REQUIRED BELOW ARE TO BE FILLED IN.

AMENDMENT No.	AUTHORITY (A.F.O. No. ETC.)	DATE OF INSERTION	INITIALS

ABBREVIATED WORKING INSTRUCTIONS FOR THE "AVO" VALVE TESTER CT.160.

The brief notes which follow are intended to act as a guide to the operator who has already studied, and is familiar with, the full operating instructions given in Volume 1, Part 1, Chapter 3 of B.R.1771(13)A.

(1) SETTING OF INSTRUMENT.

(a) Check coarse mains voltage setting of MAINS VOLTAGE SELECTOR panel, and if necessary, re-set for supply voltage.
(b) Set CIRCUIT SELECTOR to SET ∿.
(c) Set ELECTRODE SELECTOR to A_1.
(d) Set heater volts and associated toggle switch to value indicated in Valve Data.
(e) Set ANODE VOLTS, SCREEN VOLTS, NEG GRID VOLTS, and ANODE CURRENT switches to value indicated in Valve Data.
(f) Set ROLLER SELECTOR switch to Code Number given in the Valve Data and check that the links on the top panel are firmly connected.
(g) Connect mains lead to instrument and supply.
(h) Switch on, allow a few moments for instrument to warm up, and adjust rotary MAINS VOLTAGE SELECTOR until the meter needle lies in the black zone marked "∿".

(2) ALL VALVES.

(a) Insert valve and if necessary, connect "Top Cap Lead" between valve and appropriate socket in TOP CAP CONNECTOR PANEL.
(b) Set CIRCUIT SELECTOR to H/CONT to check heater continuity.
(c) Set CIRCUIT SELECTOR to A/R and using successive settings of ELECTRODE SELECTOR at A_1, A_2, D_1, D_2, check electrode insulation with the valve cold, between anodes and the remaining electrodes strapped together.
(d) Set CIRCUIT SELECTOR to S/R and set ELECTRODE SELECTOR switch to A_1 to check insulation with the valve cold between screen and all other electrodes (except diodes) strapped together.
(e) Set CIRCUIT SELECTOR to CH/R and ELECTRODE SELECTOR to A_1 or D_1 and D_2 to check with valve hot, insulation between heater/cathode and all other electrodes strapped together.
(f) Set CIRCUIT SELECTOR and ELECTRODE SELECTOR to C/H to check with valve hot, insulation between heater and cathode (for indirectly heated valves).

(3) TRIODES, DOUBLE TRIODES, DIODE TRIODES, PENTODES, DOUBLE PENTODES, DIODE PENTODES AND TETRODES, IN SIMILAR COMBINATION.

Set CIRCUIT SELECTOR to TEST and ELECTRODE SELECTOR to A_1.

NOTE :

Should protective relay operate, switch off and check for incorrect setting of ROLLER SWITCH, or electrode voltages. If these are correct and relay continues to " buzz " when instrument is switched on, the valve is probably " soft " (gassy) and the test should proceed no further.

(3.1) To check relative goodness of valve in conjunction with coloured comparison scale.

(a) Using recommended anode current.

(i) Do not alter ANODE CURRENT controls, but adjust NEG GRID VOLTS control until meter reads zero.
(ii) *Slowly* rotate SET mA/V control to SET ZERO position and make any final adjustment to zero, using fine ANODE CURRENT control.
(iii) Continue rotation of SET mA/V control to expected value of mA/V (meter needle should rise).
(iv) Comparative " goodness " of valve will now be shown by position of needle on coloured scale.

(b) Using recommended negative grid voltage.

(i) Do not alter NEG GRID VOLTS control, but adjust ANODE CURRENT controls until meter reads zero.
(ii) *Slowly* rotate SET mA/V control to SET ZERO position and make any final adjustment to zero, using fine ANODE CURRENT control.
(iii) Continue rotation of SET mA/V control to expected value of mA/V (meter needle should rise).
(iv) Comparative " goodness " of valve will now be shown by position of needle on coloured scale.

(3.2) To check valve by direct reading of mutual conductance.

(a) Using recommended anode current.

(i) Do not alter ANODE CURRENT controls, but adjust NEG GRID VOLTS control until meter reads zero.
(ii) *Slowly* rotate SET mA/V control to SET ZERO position and make any final adjustment to zero, using fine ANODE CURRENT control.
(iii) Continue rotation of SET mA/V control until meter needle reaches calibration line in centre of " good " zone.
(iv) Read actual value of mutual conductance from SET mA/V dial. This figure can be compared with that given in Data Book.

(b) Using recommended negative grid volts.

(i) Do not alter NEG GRID VOLTS control, but adjust ANODE CURRENT controls until meter reads zero.
(ii) *Slowly* rotate SET mA/V control to SET ZERO position and make any final adjustment to zero, using fine ANODE CURRENT control.
(iii) Continue rotation of SET mA/V control until meter needle reaches calibration line in centre of " good " zone.
(iv) Read actual value of mutual conductance from SET mA/V dial. This figure can be compared with that given in the Data Book.

(3.3) To check valves having a mutual conductance less than 1 mA/V.

Since the SET mA/V dial is not calibrated below 1 mA/V, it is not possible to check on the coloured comparision scale, valves having an expected mutual conductance less than 1mA/V. Such valves are checked by direct measurement of mutual conductance using the procedure as in Section 3.2 with the exception that the mA/V dial is rotated to the 1mA/V position and the actual value for mutual conductance (being less than 1mA/V) is read on the meter scale calibrated 0.1 — 1mA/V.

For valves with more than one electrode assembly, having set up for any difference in electrode voltages, repeat appropriate test with ELECTRODE SELECTOR at A_2.

(3.4) Gas Test.

Set CIRCUIT SELECTOR to GAS, and ELECTRODE SELECTOR to A_1. Gas current will now be directly indicated in μA.

(4) DIODES & RECTIFIERS.

Proceed as in Sections 1 and 2, then with the CIRCUIT SELECTOR at position TEST, ELECTRODE SELECTOR at D_1 and using inner ring of figures, set the right-hand ANODE CURRENT control to the load figure specified in Valve Data. The comparative " goodness " of a valve is shown by the position of the needle on coloured scale.

Load reading is per anode. Check full-wave rectifiers and double diodes with ELECTRODE SELECTOR at D_1 and D_2 respectively.

Check signal diodes at 1mA loading unless otherwise specified in data.

ABBREVIATIONS USED IN THIS MANUAL.

D, DD, DDD - Diodes.

DT, DDT, DP, DDP - Valve with another electrode assembly in addition to the diode.

H - Heptode or Hexode.

N - Nonode.

O - Octode.

P - Pentode or Tetrode, PP - Double Pentode or Double Tetrode.

T - Triode, TT - Double Triode, TH - Triode Heptode, or Triode Hexode.

TP - Triode Pentode.

R - Rectifier, RR - Full-wave Rectifier.

TI - Tuning Indicator (magic eye).

CCR - Cold Cathode Rectifier.

† - Appearing among ROLLER SELECTOR switch numbers, refers to third diodes in triple diodes. Refer to Volume 1, Part 1, Chapter 3, Section headed " Instructions for Testing Specific Valve Types " for full test procedure.

() - Where brackets appear around stated heater voltage thus (5) it indicates that heater voltage given in Data columns has been uprated to allow for voltage drop at valve base, due to high heater current taken by the particular valve.

NOTES REFERRED TO IN VALVE DATA REMARKS COLUMN.

A The heater/cathode lead identified with red marking should be connected to Pin No.1.

B The grid top cap is situated over Pins No. 7 and 8.

C This valve does not fit special valve holders supplied, and roller selector Data will depend on connections made to valve electrodes.

D Pin No.1 on the flat pinch type of base is the lead adjacent to the coloured blob which identifies the anode connections, the remaining pins being directly numbered across the base from Pin No. 1.

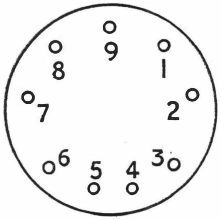
E Alternative test figures are given for use when valve shows signs of back emission from anode to G_3. This phenomenom can be recognised by the anode current apparently decreasing as the valve heats.

G Valves on the B8D base when leads are cut, should be tested either by insertion in a B8D Adaptor, or leads lengthened and tested in the same way as those with flexible leads, by using the special 9 clip valve holder.

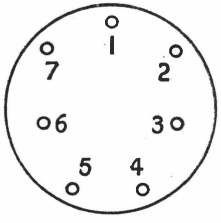
H Tests on tuning indicators should not be made until the resistor value (Ra), indicated in the remarks column, has been inserted across the link(s) on valve panel.

J Use special 9 clip valve holder.

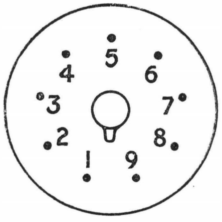
K The grid top cap is situated over Pins No. 4 and 5.



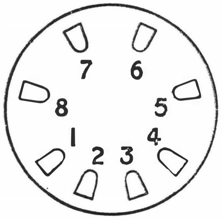
BRITISH NINE PIN (B9)



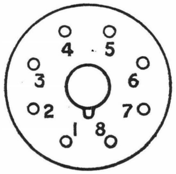
BRITISH SEVEN PIN (B7)



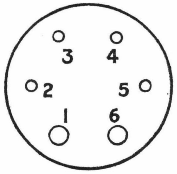
B 9G



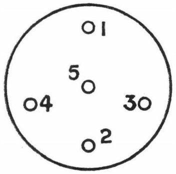
'P' TYPE BASE (8SC)



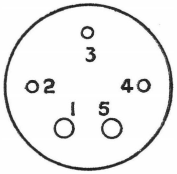
INTERNATIONAL OCTAL (AO8)



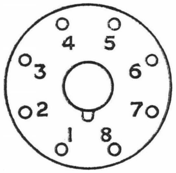
AMERICAN SIX PIN (UX6)



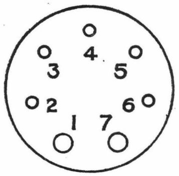
BRITISH 4/5 PIN (B5&B4)



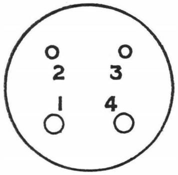
AMERICAN FIVE PIN (UX5)



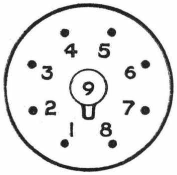
MAZDA OCTAL (MO8)



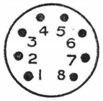
AMERICAN SMALL SEVEN PIN (SM7)



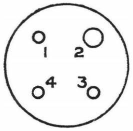
AMERICAN FOUR PIN (UX4)



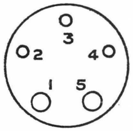
AMERICAN LOCTAL (B8B OR B8G)



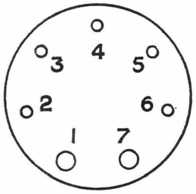
SUB MINIATURE 8 PIN (B8D)



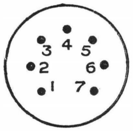
HIVAC FOUR PIN (SM4)



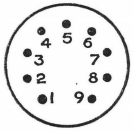
HIVAC FIVE PIN (SM5)



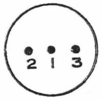
AMERICAN SEVEN PIN (UX7)



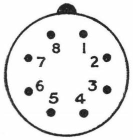
B7G



B9A



B3G



B8A

DIAGRAM OF PIN CONNECTIONS FOR STANDARD VALVE HOLDERS

(viewed from underside of Valve holder)

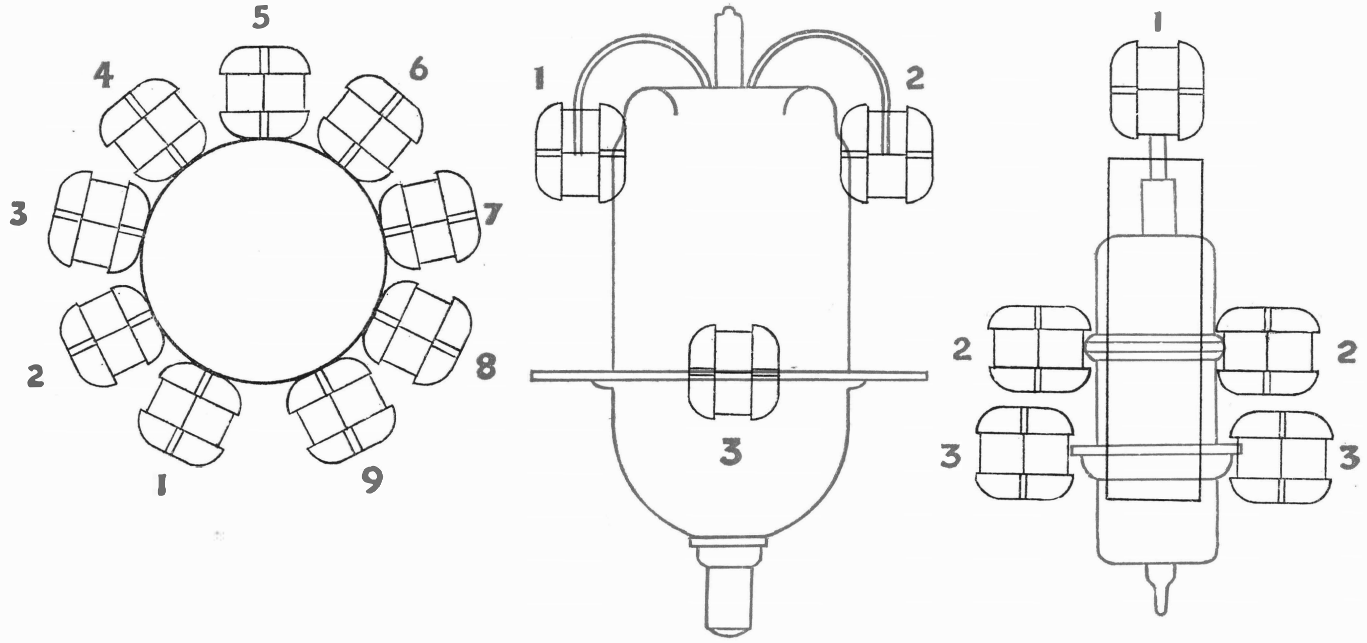


DIAGRAM OF SPECIAL VALVE HOLDERS
(*showing pin connections viewed from above*).

Valve Data for Army 'A' Series Valves.

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
AR4	642 300 000		2	0	100		3.6	0.8	B4	T		PM1HF
AR5	642 300 000		2	3	100		4.5	2.2	B4	T		LP2
AR6	642 300 000		2	3	100		4.5	2.2	B4	T		LP2
AR7	000 231 600	G_1	13	3	250		10	4	B7	T		4D1
AR8	206 090 830	G_1	2	2.8	150		1.5	1.1	MO8	DDT		HL23DD
AR9	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
AR10	682 390 000	G_1	2	6	150		2.2	1.8	B5	DDT		L21DD
AR11	642 300 000		4	8	150		7.5	1.3	B4	T		4019B
AR12	264 300 000		2	0.7	100		0.8	0.6	UX4	T		4020A
AR13	264 300 000		4	2.4	100		6	2.2	UX4	T		4022AR
AR14	642 310 000		2	0	100		2.5	1.3	B5	T		220RG
AR15	642 310 000		2	0	100		7.5	1.7	B5	T		220LF
AR16	446 230 700		2	0	100		1.2		B7	TT	Class B check for balance	220B
AR17	642 310 000		4		100		7.5	3.6	B5	T		MH4
AR20	642 300 000		4	3	100		19	3	B4	T		4021B
AR21	026 890 310	G_1	6.3	5.5	250		5	2	AO8	DDT		EBC33
ARD2	123 000 000		4				5		B3G	D		D1
ARD4	812 300 000		4				5		B4	D		D42
ARDD1	982 310 000		13				5		B5	DD		10D1
ARDD3	029 180 310		6.3				1		AO8	DD		D63
ARDD5	028 190 310		6.3				5		AO8	DD		EB34
ARH1	026 540 310	G_1	6.3	3	250	100	5.3	1.1	AO8	H		X64
ARP1	642 350 000		2	3	100	100	3.8	1.7	B5	P		PT2
ARP2	041 230 500	A_1	2	1	150	150	3	1.8	B7	P		SP2
ARP3	061 231 500	G_1	13	3	250	125	9.5	1.6	B7	P		9D2
ARP4	041 230 500	A_1	2	1	150	125	1.4	1.4	B7	P		SP210
ARP5	041 230 500	A_1	2	0	150	150	3.7	1.7	B7	P		VP2
ARP6	041 231 500	A_1	4	2	200	100	3	2.3	B7	P		SP4
ARP7	041 231 500	A_1	(5)	3	250	200	34	8.5	B7	P		42MPT
ARP8	045 231 600		(5)	9.5	250	250	55	11	B7	P		AC4/PEN
ARP9	045 231 600		13	6	250	250	62	7.5	B7	P		PEN1340
ARP9A	045 231 600		13	6	250	250	32	8	B7	P	min. fig. mA/V.	7D8S
ARP10	005 231 600	G_1	(5)	6	250	250	40	9.1	B7	P		APP4G
ARP11	061 231 500	G_1	4	2	200	200	10	4.7	B7	P		TSP4
ARP12	206 510 030	G_1	2	0	100	60	3.15	1.0	MO8	P		VP23
ARP13	041 230 500	A_1	2.	0	150	60	2.9	1.	B7	P		VP21
ARP14	040 231 500	A_1	2	0	150	60	3.9	1	B7	P		220IPT
ARP15	026 500 310	G_1	6.3	3	250	100	7.5	1.5	AO8	P		KTW63
ARP16	026 500 310	G_1	6.3	3	250	100	2	1.2	AO8	P		KTZ63
ARP17	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		6F6
ARP18	642 350 000		2	2.9	150	125	5	3.2	B5	P		KT24

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
ARP19	216 510 030	G_1	4	1.7	200	200	8	8.5	MO8	P		SP41
ARP20	216 510 030	G_1	4	1	200	125	23	8.5	MO8	P		SP42
ARP21	026 510 310	G_1	6.3	2	250	150	10	7.5	AO8	P		Z62
ARP22	005 231 600	G_1	11	1	100	100		7	B7	P		116/Pen
ARP23	041 231 500	A_1	4	1.5	200	100	4.8	2.8	B7	P		MS/Pen
ARP24	061 231 500	G_1	2	0	150	60	4	1	B7	P		220VPT
ARP25	045 231 600		4	3.5	250	250	40	10	B7	P		KT61
ARP26	041 231 500	A_1	(5)	15	250	250	85	6.3	B7	P		KT44
ARP33	041 231 500	A_1	4	1	200	100	5.5	43.2	B7	P		MSP4
ARP34	026 510 310	G_1	6.3	2.5	250	100	6	2.2	AO8	P		EF39
ARP35	256 101 403		6.3	2	250	250	10	6.5	B9G	P		EF50
ARP36	216 510 030	G_1	6.3	1.8	200	200	8	8.5	MO8	P		SP61
ARP37	206 544 730		2	0	100	100	15	3	MO8	PP		QP25
ARP38	026 510 310	G_1	4	1.5	100	100	5	2.2	AO8	P		KTZ73
ARS7	542 300 000	A_1	2	1	150	75	4.4	1.6	B4	P		V524
ARS8	542 300 000	A_1	2	0	150	75	4.5	1.2	B4	P		VS2
ARTH2	027 546 310	G_1	6.3	2	100		5.4	2.2	AO8	TH		ECH35
				2	250	100	5	2.4				
ARTP1	571 230 640	G_1	2	1	100	Min	0.8	1.2	B9	TP		TP22
				1	100	60	1.2	1.0				
ARTP2	207 640 530	G_1	2	1	100	Min	3.7	1.6	MO8	TP		TP25
				1.5	100	60	1	1.0				
AT20	642 300 000		6.3	12	350		45	4.2	B4	T		MZ05.20
ATP4	200 540 030	A_1	2	10	150	150	31	5.2	MO8	P		V248A
ATP5	041 230 500	A_1	3	5	250	250	16	5	B7	P		V245
ATP7	041 230 500	A_1	6.3	5	400	250	14	3	B7	P	min. fig. for mA/V.	V226
ATP10	205 411 300	A_1	6.3	10	400	200	50	2.5	UX7	P		4061A
ATP35	401 235 100	A_1	12.6	25	250	200	40	2	B7	P		PV1-35
ATS25	254 130 000	A_1	6.3	12.5	300	250	83	7.1	UX5	P		807
ATS25A	254 130 000	A_1	6.3	12.5	300	250	83	7.1	UX5	P		807
AU1	892 300 000		(5)				120		B4	RR		FW4-500
AU3	892 300 000		(5)				60		B4	RR		U12/14
AU3A	892 300 000		(5)				60		B4	RR		MU12/14
AU4	See Page 43											
AU5	See Page 43											
AU8	See Page 43											
AU13	030 809 020		5				60		AO8	RR		5Z4
AW5	216 040 530		4	22.5	250	250	See Note H		MO8	TI	Ra req'd 1MΩ	ME41
AW6	026 540 310		6.3	5	250	250	See Note H		AO8	TI	Ra req'd 2MΩ	EM31

Valve Data for Joint Services 'CV' Series Valves.

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV6	020 000 310	A_1G_1	6.3	5.5	250		14	3	AO8	T	See Note B	DET20
CV9	041 231 500	A_1	(5)	7	250	250	72	12	B7	P	mA/V fig. min.	AL60
CV16	234 000 000	A_1	4	1	250		6	4.2	Disc seal	T	min slope fig. See Note A	S25A
CV18	204 140 300	$A_1 A_2$	6.3	7	250		21	2.8	UX7	TT		33A/138A
CV20	See Page 43											
CV21	216 510 030	G_1	4	2.5	250	200	8.5	2.9	MO8	P		VP41
CV24	241 040 030		4	3	200		7.5	4.3	MO8	T		HL41
CV31	892 300 000		(5)				60		B4	RR		U20
CV51	026 540 310		6.3	15	250	250	See Note H		AO8	TI	Ra Req'd 1MΩ	E1320
CV53	234 000 000	A_1	4	1	250		6	4.5	Disc seal	T	min slope fig. See Note A	
CV54	See Page 43											
CV63	020 000 310	$A_1 G_1$	6.3	3	100		25	6.7	AO8	T	See Note B	
CV65	206 540 030		2	1	100	100	11	4.5	MO8	P		Pen 25
CV66	244 664 413		6.3	1.5	250		10	9	B9G	T		RL37
CV72	045 231 000	A_1	6.3	9.7	200	200	40	8.7	B7	P		V1120
CV73	040 231 500	A_1	(5)	9.7	200	200	40	8.7	B7	P		V1120B
CV78	366 446 612		6.3	2.3	250		32	15	B9G	T		
CV82	234 000 000	A_1	4	3	250		20	3.7	Disc seal	T	min mA/V See Note A	3A/141J
CV84	642 310 000		6.3	9	300		55	6	B5	T		3B/102B
CV88	See Note C		6.3	0	250		4	5	Disc seal	T	See Note C	3A/148J
CV93	See Note C		1.4	0	20			0.7	Disc seal	T	See Note C	V625
CV105	020 000 300	D_1	6.3				30		AO8	R		
CV118	216 510 030	G_1	6.3	1.8	200	200	8	8.5	MO8	P		SP61
CV121	See Page 43											
CV122	632 400 000		1.4	0	100			0.8	Special	T	See Note D	
CV124	254 130 000	A_1	6.3	12.5	300	250	83	7.1	UX5	P		807
CV131	412 361 500		6.3	2.5	250	200	8	2.5	B7G	P		9D6
CV132	412 361 500		6.3	1.8	250	100	6.3	2	B7G	H		
CV133	602 364 100		6.3	8.5	250		10.5	2.2	B7G	T		6C4
CV135	812 380 000		6.3				60		B7G	R		EY91
CV136	412 360 500		6.3	13.5	250	250	16	2.6	B7G	P		7D9
CV137	812 314 600		6.3	3	200		7.5	2.5	B7G	DT		EAC91
CV138	412 361 500		6.3	2	250	250	10	7.5	B7G	P		EF91
CV138	412 361 500		6.3	1.5	200	150	4	6.4	B7G	P	See Note E	EF91
CV139	412 314 600		6.3	1.5	250		10	9	B7G	T		
CV140	192 310 800		6.3				5		B7G	DD		6AL5
CV171	542 300 000	A_1	2	0.5	150	60	2.4	1.1	B4	P		210VPT
CV173	256 101 403		6.3	7	250	250	10	6	B9G	P		DDR2
CV175	542 300 000	A_1	1.4	0	50	40	0.7	0.4	Sm4	P		XSG1.5
CV176	642 300 000		1.4	0	50		5.8	0.7	Sm4	T		XP1.5

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV181	461 471 230		6.3	4.6	250		6	2.3	AO8	TT		ECC32
CV185	642 300 000		2	13.5	150		14	3.5	B4	T		PM202
CV187	See Page 43											
CV201	021 540 300	A_1	(2.5)	10	250	150	25	3.3	AO8	P		V630
CV207	042 310 000	A_1	4	1	100			5.3	B5	T	mA/V fig. min.	ACP4
CV222	241 657 143		6.3	12	250	125	30	3	B9G	PP		
CV229	623 400 000		1.4	0	100			0.8	Special	T	See Note D	
CV235	See Page 43											
CV243	042 350 000		(5)	40	75	75	45	1.5	B5	P		4045A
CV244	542 310 000	A_1	4	1.5	200	100	4.8	2.2	B5	P	mA/V fig. min.	MS/Pen
CV245	026 510 310	G_1	7.5	3	250	125	4.8	1.9	AO8	P		4328D
CV260	216 510 030	G_1	6.3	1.8	200	200	8	8.5	MO8	P		
CV261	See Page 43											
CV273	346 000 000	H—	6.3	1	250		20	3	Disc seal	T		
CV276	020 540 310	A_1	6.3		200	200	25	4.4	AO8	P		
CV277	See Page 43											
CV278	461 471 230		6.3	8	250		9	2.5	AO8	TT		6SN7
CV281	027 546 310	G_1	6.3	2 2	100 250	 100	5.4 5	2.2 2.4	AO8	TH		E1415
CV283	192 310 800		6.3				5		B7G	DD		6AL5
CV296	256 101 403		6.3	7	250	250	10	6	B9G	P		
CV302	276 454 130		6.3	2 2	100 250	 90	6.2 5.3	2.4 2.2	B8G	TH		ECH22
CV303	265 104 130		6.3	2.5	250	100	6	2.2	B8G	P		EF22
CV304	265 004 130		6.3	7	250	250	44	9	B8G	P		EL22
CV309	265 511 413		6.3	10	250	150	30	3	B9G	P		
CV317	See Page 43											
CV321	026 540 310		6.3	15	250	250	85	6.2	AO8	P		
CV327	261 154 130		6.3	2	250	250	10	10	B8G	P		EF52
CV329	412 361 500		6.3	3.7	200	200	6.5	3.8	B7G	P		
CV344	020 000 310	A_1 G_1	6.3	3	100		25	6.7	AO8	T	See Note B	
CV345	020 540 310	A_1	6.3	20	150	150	80	9.6	AO8	P		12E1
CV346	208 009 130		6.3				60		B8G	RR		EZ22
CV347	264 198 130		6.3	5.5	250		5	2	B8G	DDT		EBC21
CV352	026 890 310	G_1	6.3	5	250		5.7	1.8	AO8	DDT	min fig. for mA/V	EBC33
CV354	346 000 000	H—	6.3	2	250		10	6.5	Disc seal	T		
CV358	026 510 310	G_1	6.3	2	250	100	3	1.8	AO8	P		EF37
CV366	265 004 130		6.3	3	300	150	30	11	B8G	P		
CV371	See Page 43											
CV375	123 000 000	D_1	6.3				1		B3G	D		EA50
CV378	030 809 020		(5.7)				120		AO8	RR		R231
CV380	265 114 113		6.3	1.6	250	250	10	7.7	B9G	P		EF54
CV384	642 300 000		(5)	30	400		62.5	7.5	B4	T		DET5
CV385	653 420 000		1.25	1.5	40	40		0.5		P	See Note D	CK502AK

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV385	040 230 650		1.25	1.5	40	40		0.5	B8D	P	See Note G	CK502AX
CV386	653 420 000		0.625	0	40	40		0.2		P	See Note D	CK505AX
CV386	040 230 650		0.625	0	40	40		0.2	B8D	P	See Note G	CK505AX
CV387	653 420 000		1.25	4.5	40	40		0.5		P	See Note D	CK506AX
CV387	040 230 650		1.25	4.5	40	40		0.5	B8D	P	See Note G	
CV391	265 144 130		6.3		300	250	72	6	B8G	P		LS650
CV394	026 457 310		6.3	12 3	250 250	250 250	See Note H		AO8	TI	Ra=1MΩ Ra=1MΩ	EM34
CV399	642 310 000		4	0	100		7.5	3.5	B5	T		MH4
CV404	See Page 43											
CV408	412 300 600		6.3	2.2	150		10	8	B7G	T		
CV409	265 004 130		6.3	4	250	250	40	10.5	B8G	P		A1820
CV415	241 657 143		6.3	14	250	150	30	3.9	B9G	PP		
CV416	412 361 500		6.3	12	200	200	17	3.6	B7G	P		
CV417	412 314 600		6.3	1.5	250		10	8.5	B7G	T		6AQ4
CV423	471 461 230		25	8	250		9	2.6	AO8	TT		25SN7
CV426	See Page 43											
CV428	215 144 130	A_1	6.3	15	300	250	72	6	B8G	P		5B/251M
CV437	256 001 403		6.3	9	250	175	80	13	B9G	P		KT67
CV443	653 420 000		0.625	0	40	40		0.2	B5A	P	See Note D	CK505AX
CV443	040 230 650		0.625	0	40	40		0.2	B8D	P	See Note G	CK505AX
CV450	120 540 310	A_1	6.3	7	250	250	100	14.3	AO8	P		EL38
CV452	412 398 600		6.3	3	250		1.0	1.2	B7G	DDT		6AT6
CV453	412 366 100		6.3	2	100		11	7	B7G	H		6BE6
CV454	412 365 100		6.3	1	250	100	11	4.4	B7G	P		6BA6
CV455	741 226 413		6.3	2	250		10.5	5.5	B9A	TT		12AT7
CV465	412 163 510		6.3	1.4	100	100	7	5	B8D	P	See Note G	
CV466	412 653 160		6.3	2	100	100	7.5	5.2	B8D	P	See Note G	
CV467	412 163 510		6.3	2	100	100	3	2.5	B8D	P	See Note G	
CV468	462 603 160		6.3	2	100		13	5.5	B8D	T	See Note G	
CV469	281 380 000		6.3				5		B5B	D		
CV471	412 163 510		6.3	9	100	100	31	5	B8D	P	See Note G	
CV473	082 813 080		6.3				30		B8D	R	See Note G	5641
CV475	412 163 510		6.3	2	100	100	7	4.5	B8D	P	See Note G	5899
CV491	741 226 413		6.3	8.5	250		10.5	2.2	B9A	TT		12AU7
CV492	741 226 413		6.3	2	250		1.2	1.6	B9A	TT		12AX7
CV493	902 308 100		6.3				30		B7G	RR		6X4
CV499	265 144 130		18	15	300	250	72	6	B8G	P		
CV500	026 980 310	G_1	6.3	3	250		1.2	1.0	AO8	DDT		6T7
CV501	026 895 310	G_1	6.3	2	250	100	5	1.8	AO8	DDP		EBF32
CV502	642 300 000		2	4.5	150		3	1.3	B4	T		LD210
CV503	020 809 030		5				60		AO8	RR		5W4
CV504	264 513 000		6.3	22	250	250	See Note H		UX6	TI	Ra=1MΩ	6U5
CV509	026 540 310		6.3	12.5	250	250	45	4.1	A08	P		6V6G

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV510	026 540 310		6.3	12.5	250	250	45	4.1	AO8	P		6V6
CV511	026 540 310		6.3	12.5	250	250	45	4.1	AO8	P		6V6GT
CV512	026 510 310	G_1	6.3	3	250	100	2	1.2	AO8	P		6W7G
CV515	026 540 310		6.3	13.5	150	150	58	7	AO8	P		6Y6
CV518	041 231 500	A_1	4	2.8	250	200	7.4	2	B7	P		ACVP1
CV519	918 236 500	G_1	(5)	6	250	250	36	9.5	B7	DDP		Pen4DD
CV520	065 231 500	G_1	2	1.5	150	60	2	1.4	B7	H		VP2B
CV522	265 104 130		6.3	3	250	100	8.5	1.7	B8G	P		7B7
CV524	204 531 102	A_1	20	13	250	250	72	6	B9G	P		TT12
CV525	026 540 310		12.6	12.5	250	250	30	3	AO8	P		12A6
CV526	026 530 310		12.6	12.5	250	250	30	3	AO8	P		12A6GT
CV529	417 146 230		12.6	3.6	100		3.7	1.5	AO8	TT		12AH7
CV531	026 985 310	G_1	12.6	3	250	125	10	1.3	AO8	DDP		12C8
CV534	026 040 310		12.6	8	250		9	2.6	AO8	T		12J5
CV535	026 040 310		12.6	8	250		9	2.6	AO8	T		12J5GT
CV537	126 641 340		12.6	3.6	100		12	4.3	AO8	H		12SA7
CV538	026 641 340		12.6	3.6	100		12	4.3	AO8	H		12SA7GT
CV540	074 461 230		12.6	2	250		2	1.3	AO8	TT		12SC7
CV543	021 415 360		12.6	3	250	100	9	2	AO8	P		12SK7
CV544	021 415 360		12.6	3	250	100	9	2	AO8	P		12SK7GT
CV545	061 231 500	G_1	4	1.7	250	100	7.9	7	B7	P		ACSP3
CV546	041 896 230		12.6	2	250		0.9	1.1	AO8	DDT		12SQ7
CV547	041 896 230		12.6	2	250		0.9	1.1	AO8	DDT		12SQ7GT
CV548	642 300 000		2	3	100		4.5	2.2	B4	T		LP2
CV549	026 540 310		25	18	150	125	33	2.3	AO8	P		25A6
CV550	026 540 310		25	18	150	125	33	2.3	AO8	P		25A6GT
CV551	026 540 310		25	8.2	200	100	50	9.5	AO8	P		25L6G
CV552	026 540 310		25	8.2	200	100	50	9.5	AO8	P		25L6
CV553	026 540 310		25	8.2	200	100	50	9.5	AO8	P		25L6GT
CV554	029 180 310		6.3				1		AO8	DD		D63
CV555	291 183 000		25				60		UX6	RR		25Z5
CV556	207 544 630		2	7.7	100	100	3.8	3	MO8	PP		QP25
CV557	812 300 000		4				1		B4	D		D42
CV558	029 180 310		25				60		AO8	RR		25Z6
CV559	029 180 310		25				60		AO8	RR		25Z6GT
CV560	061 231 500	G_1	4	2.5	200	200	8	4.7	B7	P		TSP4
CV561	026 540 310		35	7.5	200	100	40	5.8	AO8	P		35L6
CV562	026 540 310		35	7.5	200	100	40	5.8	AO8	P		35L6GT
CV563	642 300 000		(5)	1	100			6.9	B5	T		DA30
CV564	280 000 130		35				120		B8B	R		35Z3
CV565	280 000 130		35				120		B8B	R		35Z3GT
CV567	022 080 310		28				60		AO8	R		35Z5
CV568	022 080 310		28				60		AO8	R		35Z5GT
CV569	461 471 230		6.3	2.3	250		2.3	2	AO8	TT		ECC35
CV571	026 540 310		48	8.2	200	100	50	9.5	AO8	P		50L6GT

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV572	028 090 310		6.3				60		AO8	RR		6X5G
CV573	028 090 310		6.3				60		AO8	RR		6X5
CV574	028 090 310		6.3				60		AO8	RR		6X5GT
CV575	020 809 030		(5.7)				120		AO8	RR		5U4G
CV578	026 545 310	G_1	6.3	8	250	100	3.5	1.1	AO8	H		6A8G
CV579	026 545 310	G_1	6.3	8	250	100	3.5	1.1	AO8	H		6A8
CV580	026 545 310	G_1	6.3	8	250	100	3.5	1.1	AO8	H		6A8GT
CV581	026 040 310		6.3	8	250		8	2	AO8	T		6C5G
CV582	026 040 310		6.3	8	250		8	2	AO8	T		6C5
CV583	026 040 310		6.3	8	250		8	2	AO8	T		6C5GT
CV585	265 113 000	G_1	6.3	3	250	100	2.3	1.2	UX6	P		6C6
CV586	026 540 310		6.3	13.5	250	250	100	11	AO8	P		EL37
CV587	026 980 310	G_1	6.3	3	250		1.1	1.2	AO8	DDT		6Q7G
CV588	026 980 310	G_1	6.3	3	250		1.1	1.2	AO8	DDT		6Q7
CV589	026 980 310	G_1	6.3	3	250		1.2	1.2	AO8	DDT		6Q7GT
CV590	021 415 360		6.3	3	250	100	3	1.6	AO8	P		6SJ7G
CV591	021 415 360		6.3	3	250	100	3	1.6	AO8	P		6SJ7
CV592	021 415 360		6.3	3	250	100	3	1.6	AO8	P		6SJ7GT
CV593	030 809 020		(5.7)				120		AO8	RR		GZ32
CV594	021 415 360		6.3	1	250	150	10.8	4.9	AO8	P		6SH7
CV595	021 415 360		6.3	1	250	150	10.8	4.9	AO8	P		6SH7GT
CV597	See Page 43											
CV599	021 415 360		6.3		300	150	10	9	AO8	P		1851
CV603	264 300 000		7.5	32	350		16	1.5	UX4	T		10
CV604	364 300 000		2	9	150		3	0.9	UX4	T		30
CV606	264 130 000		6.3	18	250		7.5	1.1	UX5	T		37
CV608	265 413 000		6.3	18	250	250	32	2.3	UX6	P		41
CV609	265 413 000		6.3	16.5	250	250	34	2.5	UX6	P		42
CV610	264 300 000		2.5	35	200		34	2.2	UX4	T		45
CV611	264 130 000		2.5	13.5	250		5	1.4	UX5	T		56
CV612	265 113 000	G_1	2.5	3	250	100	2	1.2	UX6	P		57
CV613	265 113 000	G_1	2.5	3	250	100	8	1.5	UX6	P		58
CV614	269 813 000	G_1	6.3	2	250		0.9	1.1	UX6	DDT		75
CV615	264 130 000		6.3	13.5	250		5	1.4	UX5	T		76
CV616	265 113 000	G_1	6.3	3	250	100	2.3	1.2	UX6	P		77
CV617	298 300 000		5				60		UX4	RR		80
CV619	289 130 000		6.3				30		UX5	RR		84
CV622	205 411 300	A_1	6.3	18	400	250	30	2.2	UX7	P		802
CV636	200 300 000	D_1	2.5				120		UX4	R		836
CV639	264 130 000		2.5	25	350		25	1.7	UX5	T		843
CV652	265 113 000	G_1	6.3	3	250	100	2	1.2	UX6	P		1603
CV653	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		1611
CV654	026 540 310	G_1	6.3	3	250	100	5.3	1.1	AO8	H		1612
CV655	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		1613
CV656	200 300 000	D_1	2.5				120		UX4	R		1616

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV657	026 510 310	G_1	6.3	3	250	100	2	1.2	AO8	P		1620
CV658	026 540 310		6.3	14	250	250	72	6	AO8	P		1622
CV660	021 415 360		6.3	2	300	150	10	9	AO8	P		6AC7
CV664	612 364 100		6.3	7	250		6.3	2.2	B7G	P		9002
CV665	412 365 100		6.3	3	250	100	6.7	1.8	B7G	P		9003
CV692	007 060 010				250		58		AO8	CCR	Ra each Sec. 3KΩ	0Z4
CV694	021 415 360		12.6	1	250	125	11.8	4.7	AO8	P		12SG7
CV697	021 415 360		12.6	3	250	100	3	1.6	AO8	P		12SJ7
CV698	021 415 360		12.6	3	250	100	3	1.6	AO8	P		12SJ7GT
CV700	041 986 230		12.6	9	250		9.5	1.9	AO8	DDT		12SR7
CV703	027 546 310	G_1	12.6	1	100		8	2.5	AO8	TH		12K8
				3	250	100	4	1.2				
CV705	036 500 200	G_1	2	3	90	75	2.2	0.7	AO8	P		1D5GP
CV706	026 510 310	G_1	6.3	3	250	100	8	1.5	AO8	P		6U7G
CV709	300 200 000	D_1	2.5				30		UX4	R		72
CV711	365 200 000	G_1	2	3	150	75	1.7	0.6	UX4	P		32
CV712	265 130 000	G_1	6.3	18	175	175	14	1.0	UX5	P		38
CV716	200 300 000	D_1	2.5				15		B4	R		8013A
CV717	020 908 030		(5.7)				120		AO8	RR		5R4GY
CV723	026 540 310		2.5	10	300	250	45	4.5	AO8	P		1619
CV726	280 000 130		35				120		B8G	R		35Z3LT
CV728	036 500 200	G_1	1.4	0	90	90	2.3	0.7	AO8	P		1P5GT
CV729	030 809 020		(5.7)				60		AO8	RR		5V4G
CV730	264 300 000		6.3	36	250		60	5.2	UX4	T		6A3
CV731	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		6F6GT
CV750	364 200 000		5	4.5	90		2.5	0.7	UX4	T		01A
CV753	281 008 300		1.4				1		B7G	D		1A3
CV754	365 200 000	G_1	2	3	90	75	2.2	0.7	UX4	P		1A4P
CV755	036 540 200		1.4	4.5	90	90	4	0.8	AO8	P		1A5G
CV756	036 540 200		1.4	4.5	90	90	4	0.8	AO8	P		1A5GT
CV757	266 453 000	G_1	2	0	150	75	3	0.4	UX6	H		1A6
CV758	365 200 000	G_1	2	3	90	75	1.6	0.6	UX4	P		1B4P
CV759	369 842 000		2	3	150		0.8	0.6	UX6	DDT		1B5
CV760	026 546 300		1.4	0	90	40		0.8	AO8	H		1B7GT
CV764	802 310 000		40				120		B5	R		1D5
CV765	036 546 200	G_1	2	0	150	75	3	0.4	AO8	P		1D7G
CV766	036 500 200	G_1	2	3	90	75	1.6	0.6	AO8	P		1E5GT
CV767	364 520 000		2	3	90	90	4	1.4	UX5	P		1F4
CV768	036 540 200		2	3	90	90	4	1.4	AO8	P		1F5G
CV769	365 892 000	G_1	2	1.5	150	75	2.2	0.6	UX6	DDP		1F6
CV770	036 895 200	G_1	2	1.5	150	75	2.2	0.6	A08	DDP		1F7GV
CV771	036 540 200		2	6	90	90	8.5	1.5	AO8	P		1G5G
CV772	036 447 200		1.4	0	90		1.0	0.6	AO8	TT		1G6G
CV773	036 447 200		1.4	0	90		1.0	0.6	AO8	TT		1G6GT

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV774	036 040 200		2	9	150		3	0.9	AO8	T		1H4
CV775	366 454 020		1.4	0	90	40		0.5	B8G	H		1LA6
CV776	365 004 020		1.4	9	90	90	5	0.9	B8G	P		1LB4
CV777	365 124 020		1.4	0	90	40	1.1	0.7	B8G	P		1LC5
CV778	366 454 020		1.4	0	90	40	3	0.5	B8G	H		1LC6
CV779	365 804 020		1.4	0	90	40	0.6	0.5	B8G	DP		1LD5
CV780	360 804 020		1.4	0	90		0.1	0.2	B8G	DT		1LH4
CV781	365 124 020		1.4	0	90	90	1.6	0.8	B8G	P		1LN5
CV782	266 424 300		1.4	4	75		4.5	1.2	B7G	H		1R5
CV783	264 526 300		1.4	7	90	75	7.4	1.5	B7G	P		1S4
CV784	208 564 300		1.4	1.8	90	90	1.6	0.6	B7G	DP		1S5
CV785	265 024 300		1.4	0	90	75	3.5	0.9	B7G	P		1T4
CV787	265 541 300	G_1	2.5	8	250	100	3.5	1.1	Sm7	H		2A7
CV792	020 000 310	$A_1 G_1$	6.3	10.5	300		11	3	AO8	T	See Note K	2C22
CV794	892 310 000		2				1		B5	DD		2D2
CV795	892 310 000		4				1		B5	DD		2D4A
CV796	892 310 000		13				1		B5	DD		2D13C
CV802	020 000 310	$A_1 G_1$	6.3	15	350		16		AO8	T	See Note ?	2C26
CV803	See Page 43											
CV804	See Page 43											
CV805	029 180 310		50				60		AO8	RR		50Y6GT
CV807	365 426 300		1.4	8.4	150	90	13	2	B7G	P		3A4
CV808	374 246 300		1.4	2.5	90		3.7	1.8	B7G	TT		3A5
CV811	364 204 730		1.4	0	90		5.2	1.8	B8G	TT		3B7
CV812	See Page 43											
CV815	365 004 230		1.4	4.5	150	90	10.2	2.4	B8G	P		3D6
CV818	364 526 300		1.4	5	90	90	6.9	1.9	B7G	P		3Q4
CV819	036 540 320		1.4	4.5	90	90	8	2	AO8	P		3Q5GT
CV820	364 526 300		1.4	7	90	75	7.4	1.5	B7G	P		3S4
CV826	645 231 700	G_1	4	5	100		1.5	1.5	B7	TH		4THA
				2	250	100	3.5	2.5				
CV828	061 231 500	G_1	4	3	250	150	12	8	B7	P		4TPB
CV829	061 231 500	G_1	4	3	250	150	12	8	B7	P		4TPB
CV830	041 231 500	A_1	4	3	250	150	12	8	B7	P		4TSP
CV833	265 113 000	G_1	6.3	10	100	100	9.5	1.2	UX6	P		89
CV837	026 985 310	G_1	12.6	3	250	125	10	1.3	AO8	DDP		12C8
CV841	020 809 030		(5.7)				120		AO8	RR		5U4GT
CV842	020 809 030		5				60		AO8	RR		5W4G
CV843	264 513 000		6.3	15.5	150	150	See Note H		UX6	TI	Ra = 1MΩ	6AB5
CV848	412 365 100		6.3	1.5	250	150	6.5	5	B7G	P		6AG5
CV849	021 415 360		6.3	2	300	150	10	9	AO8	P		6AJ7
CV850	412 365 100		6.3	3	150	150	7	4.3	B7G	P		6AK5
CV851	026 040 300		6.3	36	250		60	5.2	AO8	T		6B4G
CV854	260 981 300	G_1	6.3	9	250		4.5	1.2	Sm7	DDT		6C7

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV856	026 985 310	G_1	6.3	3	250	125	9	1.2	AO8	DDP		6G8G
CV858	762 344 100		6.3	1.0	100		8.5	5.6	B7G	TT		6J6
CV859	027 546 310	G_1	6.3	3 3	150 250	 100	 1.3	1.6 1.2	AO8	TH		6J8G
CV860	026 000 310	G_1	6.3	3	250		1.1	1.4	AO8	T		6K5G
CV861	026 000 310	G_1	6.3	3	250		1.1	1.4	AO8	T		6K5GT
CV862	026 040 310		6.3	9	250		8	1.9	AO8	T		6L5G
CV864	023 756 410	G_1	6.3	3 3	100 100	Min. 100	3.5 6.3	0.5 1.0	AO8	TP		6P7G
CV865	021 415 360		6.3	2	250	100	6	3.6	AO8	P		6SD7GT
CV866	021 415 360		6.3	3	250	100	3	1.6	AO8	P		6SJ7Y
CV867	041 986 230		6.3	9	250		9.5	1.9	AO8	DDT		6SR7
CV870	026 980 310	G_1	6.3	20	250		8	1.1	AO8	DDT		6V7G
CV871	328 192 000		6.3				30		UX6	RR		6Z5
CV872	026 447 310		6.3	0	150		4.2		AO8	TT	check for balance	6Z7G
CV873	028 090 310		6.3				15		AO8	RR		6ZY5G
CV875	217 461 300	G_1	6.3	16.5	250		8.3	1.3	UX7	TT		2C21
CV876	219 008 130		6.3				5		B8G	RR		7A6
CV877	265 104 130		6.3	3	250	100	9.2	2	B8G	P		7A7
CV878	266 451 130		6.3	1	250	100	14	1.4	B8G	O		7A8
CV879	260 004 130		6.3	2	250		0.9	1.5	B8G	T		7B4
CV880	265 004 130		6.3	18	250	250	32	2.3	B8G	P		7B5
CV881	265 004 130		6.3	18	250	250	32	2.3	B8G	P		7B5LT
CV882	246 089 130		6.3	2	250		0.9	1.1	B8G	DDT		7B6LM
CV883	265 454 130		6.3	2	250	100		1.1	B8G	H		7B8LM
CV885	265 004 130		6.3	12.5	250	250	45	4.1	B8G	P		7C5
CV886	265 004 130		6.3	12.5	250	250	45	4.1	B8G	P		7C5LT
CV887	264 198 130		6.3	1	250		1.3	1.0	B8G	DDT		7C6
CV889	045 231 600		13	6	250	250	32	10	B7	P		7D8
CV891	264 098 130		6.3	8	250		9.5	1.9	B8G	DDT		7E6
CV892	269 854 130		6.3	3	250	100	7.5	1.3	B8G	DDP		7E7
CV893	217 446 130		6.3	2	250		2.3	1.6	B8G	TT		7F7
CV894	265 114 130		6.3	2	250	100	6	4.5	B8G	P		7G7
CV895	265 114 130		6.3	2	250	150	10	4.2	B8G	P		7H7
CV896	216 498 130		6.3	2	250		2.3	1.6	B8G	DDT		7K7
CV897	276 454 130		6.3	3 3	150 250	 100	6.6 1.4	1.4	B8G	TH		7J7
CV898	217 446 130		6.3	8	250		9	2.6	B8G	TT		7N7
CV899	266 414 130		6.3	2	100		15	6	B8G	H		7Q7
CV900	269 854 130		6.3	1	250	100	6.2	3.4	B8G	DDP		7R7
CV901	208 009 130		6.3				30		B8G	RR		7Y4
CV902	265 114 130		6.3	2	300	150	10	5.8	B8G	P		7W7
CV906	264 300 000		7.5	23.5	250		10	1.3	UX4	T		1602

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV908	265 413 200		6.3	15	100	100	17	1.7	UX7	P		12A5
CV909	265 181 300	G_1	12.6	12.5	150	150	9 30	0.9	Sm7	RP		12A7
CV910	026 545 310	G_1	12.6	8	250	100	3.5	1.1	AO8	H		12A8
CV911	127 561 340	G_1	12.6	0 3	90 90	min 90	2.8 7	2.4 1.8	AO8	TP		12B8GT
CV916	029 180 310		12.6				1		AO8	DD		12H6
CV917	026 510 310	G_1	12.6	3	250	100	2	1.2	AO8	P		12J7GT
CV918	026 510 310	G_1	12.6	3	250	125	10.5	1.6	AO8	P		12K7GT
CV919	014 060 320		12.6	2	250		0.9	1.5	AO8	T		12SF5
CV920	014 060 320		12.6	2	250		0.9	1.5	AO8	T		12SF5GT
CV921	041 586 230		12.6	1	250	100	12.4	2.0	AO8	DP		12SF7
CV922	021 415 360		12.6	1	250	150	10.8	4.9	AO8	P		12SH7
CV924	461 471 230		12.6	2	250		2.3	1.6	AO8	TT		12SL7GT
CV925	461 471 230		12.6	8	250		9	2.6	AO8	TT		12SN7GT
CV927	281 300 000		12.6				60		UX4	R		12Z3
CV929	061 231 500	G_1	13	3	200	100	2.3	1.25	B7	P		13SPA
CV930	217 446 130		12.6	2	250		2.3	1.6	B8G	TT		14F7
CV931	265 130 000	G_1	2	1.5	150	75	1.8	0.75	UX5	P		15
CV936	265 130 000	G_1	2.5	3	200	90	4	1	UX5	P		24A
CV937	126 548 310		25	15	100	100	60 20	1.8	AO8	RP		25A7GT
CV939	026 540 310		25	22	150	150	61	5	AO8	P		25B6G
CV940	127 561 340	G_1	25	1 3	100 100	min 100	0.6 7.6	1.5 2	AO8	TP		25B8GT
CV942	281 193 000		25				60		UX6	RR		25Y5
CV944	264 130 000		2.5	21	250		5.2	0.9	UX5	T		27
CV945	245 671 430		28	3.5	30	30	12.5	3.4	B8G	PP		28D7
CV946	245 671 430		28	3.5	30	30	12.5	3.4	B8G	PP		28D7GT
CV947	364 200 000		2	22.5	150		8	0.9	UX4	T		31
CV948	126 548 310		30	5	90	90	60 38	6	AO8	RP		32L7GT
CV949	364 520 000		2.5	14	150	150	14.5	1.5	UX5	P		33
CV995	412 365 100		6.3	7.5	150	75	2.9	2.7	B7G	P		6AJ5
CV996	026 500 310	G_1	6.3	18	250	250	32	3.8	AO8	P		1637
CV1000	000 231 600	G_1	13	3	250		10	4	B7	T		4D1
CV1001	See Page 43											
CV1002	021 450 310	A_1	6.3	11	250	150	30	3.5	AO8	P		E1192
CV1018	542 300 000	A_1	2	0.5	150	60	2.2	1.1	B4	P		215SG
CV1019	642 300 000		2	7.5	150		10	1.7	B4	T		215P
CV1020	642 300 000		2	7.5	150		11	1.8	B4	T		220P
CV1021	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
CV1022	642 300 000		2	6	150		5	2.4	B4	T		220PA
CV1023	642 300 000		2	18	150		22	2.2	B4	T		230XP

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1027	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
CV1028	542 300 000	A_1	2	0	150	60	5	1.6	B4	P		220VSG
CV1032	447 230 600		2	0	100		1.2		B7	TT	check for balance	220B
CV1035	447 235 600		2	4.5	150	150	11	2.3	B7	PP		QP21
CV1036	642 300 000		2	6	150		5	2.4	B4	T		220PA
CV1037	642 310 000		4	0	100		7.5	3.6	B5	T		MH4
CV1038	642 310 000		4	0	100		7	2.5	B5	T		MHL4
CV1039	892 300 000		(5)				60		B4	RR		MU12/14
CV1040	642 300 000		(5)	31	400		62.5	7.5	B4	T		PX25
CV1041	542 300 000	A_1	2	1	150	60	2.5	1.4	B4	P		PM12M
CV1042	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
CV1044	682 390 000	G_1	2	0	100		2.3	1.2	B5	DDT		210DDT
CV1045	642 300 000		2	10	200		15.5	2.7	B4	T		X56
CV1046	642 350 000		(5)	22	400	300	62.5	6.5	B5	P		PT25H
CV1047	623 400 000		6	8	400		50	5	B4	T		TZ05
CV1048	542 230 000	A_1	2	1	150	60	2.5	1.1	B4	P		215SG
CV1049	041 230 500	A_1	2	0	150	60	3	1.0	B7	P		210SPT
CV1050	642 300 000		2	0	100		3	1.7	B4	T		HL2K
CV1051	642 350 000		2	9	150	150	18	2.2	B5	P		Pen220A
CV1052	026 500 310	G_1	6.3	18.5	250	250	30	2.8	AO8	P		EL32
CV1053	026 510 310	G_1	6.3	2.5	250	100	6	2.2	AO8	P		EF39
CV1054	029 180 310		6.3				5		AO8	DD		EB34
CV1055	026 890 310	G_1	6.3	5.5	250		5	2	AO8	DDT		EBC33
CV1056	026 510 310	G_1	6.3	2	250	100	3	1.8	AO8	P		EF36
CV1057	026 545 310	G_1	6.3	2	250	75	2.8	1.8	AO8	O		EK32
CV1060	254 130 000	A	6.3	12.5	300	250	83	7.1	UX5	P		807
CV1061	204 140 300	$A_1 A_2$	6.3	7	250		21	2.8	UX7	TT		DET19
CV1064	892 300 000		5				60		B4	RR		U12/14
CV1065	216 510 030	G_1	6.3	1.8	200	200	8	8.5	MO8	P		SP61
CV1066	216 040 030		6.3	9	200		15	4	MO8	T		P61
CV1067	026 040 310		6.3	8	250		9	2.6	AO8	T		L63
CV1071	020 809 030		(5.7)				120		AO8	RR		U52
CV1073	020 600 310	G_1	6.3	2	250		1	1.5	AO8	T		H63
CV1074	026 500 310	G_1	6.3	3	250	100	2	1.2	AO8	P		KTZ63
CV1075	026 540 310		6.3	15	250	250	85	6.2	AO8	P		KT66
CV1077	026 540 310		6.3	5	250	250	See Note H		AO8	TI	Ra=2MΩ	EM31
CV1078	123 000 000	D_1	4				5		B3G	D		DI
CV1079	542 310 000	A_1	6.3	12	250	250	100	6.5	B5	P		KT8
CV1080	415 230 000	A_1	(5.7)	20	250	250	50	4.2	B7	P		4307A
CV1082	645 230 700	G_1	2	3 0	100 150	 60	1.7 0.6	1.2 0.6	B7	TH		220TH
CV1083	041 230 500	A_1	2	0	150	60	2.9	1.1	B7	P		210VPT
CV1091	256 101 403		6.3	2	250	250	10	6.5	B9G	P		EF50
CV1092	123 000 000	D_1	6.3				5		B3G	D		EA50

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1099	027 546 310	G_1	6.3	1 3	100 250	 100	8 4	2.5 1.2	AO8	TH		X66
CV1100	026 500 310	G_1	6.3	3	250	75	8	2.7	AO8	P		KTW62
CV1101	026 890 310	G_1	6.3	5	200		11.5	3	AO8	DDT		MHLD6
CV1102	027 146 310	G_1	6.3	12	200		12	2.5	AO8	TT		BL63
CV1103	026 540 310		6.3	22	250	250	See Note H		AO8	TI	Ra = 1MΩ	Y63
CV1105	642 310 000		6.3	8	200		25	3.8	B5	T		ML6
CV1106	061 231 500	G_1	13	3	250	125	9.5	1.6	B7	P		9D2
CV1107	645 231 700	G_1	13	20 3	200 250	 100	4 3.5	0.7	B7	H		15D2
CV1108	061 231 500	G_1	13	3	250	100	2.3	1.2	B7	P		8D2
CV1109	000 231 600	G_1	13	3	250		10	4	B7	T		4D1
CV1111	See Page 43											
CV1113	See Page 44											
CV1116	216 510 030	G_1	6.3	4	200	200	7	4	MO8	P		V872
CV1117	642 310 000		4	2.5	200		5.4	3.1	B5	T		41MTL
CV1118	642 350 000		2	3	100	100	3.8	1.7	B5	P		PT2
CV1119	892 310 000		4				5		B5	DD		DDL4
CV1120	See Page 44											
CV1122	642 310 000		4	11.5	200		40	7.5	B5	T		41MXP
CV1124	041 231 500	A_1	4	1.5	200	100	4.8	2.8	B7	P		MS/Pen.
CV1125	061 231 500	G_1	4	2	250	125	5.4	2.8	B7	P		MS/PenB
CV1126	061 231 500	G_1	4	2	250	100	7	3.2	B7	H		4SH
CV1127	210 540 030	A_1	(4.5)	0	100	100	58	8.5	MO8	P		Pen 46
CV1129	041 231 500	A_1	4	2	250	125	5.4	2.8	B7	P		MS/PenT
CV1130	206 040 030		2	0	100		1.4	1.5	MO8	T		HL23
CV1133	See Page 44											
CV1134	See Page 44											
CV1135	020 000 310	$A_1 G_1$	6.3	5.5	250		14	3	AO8	T	See Note B	E1148
CV1136	265 114 113		6.3	1.5	250	250	10	7.7	B9G	P		RL7
CV1137	241 600 003		6.3	2.6	250		10	6.5	B9G	T		RL16
CV1151	642 300 000		4	0	100		2	1.0	B4	T		PM3
CV1152	642 300 000		4	1	100		4.5	2.0	B4	T		PM4DX
CV1154	642 300 000		4	6	100		18	1.7	B4	T		PM254
CV1155	642 300 000		4	0	75		0.7	0.2	B4	T		
CV1159	542 300 000	A_1	4	0	150	75	3.5	1.0	B4	P		PM14
CV1161	642 310 000		4	0	100		15	3.5	B5	T		104V
CV1163	447 230 600		2	0	100		18	1.5	B7	TT	Check for balance	PM2BA
CV1164	542 310 000	A_1	4	1.5	200	100	4.8	2.0	B5	P	min mA/V Fig.	MS4
CV1165	542 310 000	A_1	4	1.5	200	100	4.3	1.6	B5	P	,, ,, ,,	VMS4
CV1166	642 300 000		2	3	100		4.5	2.2	B4	T		LP2
CV1167	642 350 000		4	0	150	150	43	1.6	B5	P	min. Fig. mA/V	PM24A
CV1168	642 300 000		4	32	250		60	6	B4	T		PX4
CV1169	041 231 500	A_1	4	2	200	100	8	2.7	B7	P		VMP4G

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1170	892 310 000		4				1		B5	DD		D41
CV1172	041 231 500	A_1	4	2	200	100	3.7	2.5	B7	P		VP4A
CV1173	642 310 000		4	4.5	250		6.5	3.5	B5	T		354V
CV1174	045 231 600		4	12.5	250	250	52	2	B7	P		Pen 4VA
CV1179	642 310 000		4	12	200		19	3.2	B5	T		TT4
CV1180	602 310 000	G_1	4	3	200		6.5	2.5	B5	T		V312
CV1181	045 231 600		4	3.5	250	250	40	10	B7	P		KT41
CV1182	000 231 600	G_1	4	2	250		0.6	1.5	B7	T		H42
CV1183	061 231 500	G_1	4	3	250	100	7.5	1.5	B7	P		W42
CV1186	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		KT63
CV1187	892 310 000		4				1		B5	DD		D41
CV1188	005 231 600	G_1	(5)	4.4	250	250	40	10.5	B7	P		N43
CV1189	045 231 000	A_1	(4.5)	0	100	100		8.5	B7	P		AC6Pen
CV1190	042 310 000	A_1	4	0	100			7	B5	T		AC/P4
CV1191	060 231 500	G_1	4	2.5	250	250	8	7.5	B7	P		KTZ41
CV1192	026 510 310	G_1	6.3	2.3	250	150	10	7.5	AO8	P		Z62
CV1193	027 546 310	G_1	6.3	1 3	100 250	 100	8 4	2.5 1.2	AO8	TH		X65
CV1194	645 231 700	G_1	4	6 3	150 250	 75	5 2.3	1.4 1.4	B7	TH		X41
CV1195	026 500 310	G_1	6.3	3	250	100	7.5	1.5	AO8	P		KTW63
CV1196	869 231 500	G_1	(5)	8.5	250	250	40	9	B7	DDP		AC5PenDD
CV1197	123 000 000	$A_1 G_1$	6.3	3.3	200		7.5	2.9	B3G	T	Red Mark indicates anode T.C.	RL18
CV1198	042 310 000	A_1	4	0	100			7	B5	T		AC/P4
CV1208	642 300 000		6.3	0	150		55	3.2	B4	T	min fig. mA/V	P625
CV1220	642 310 000		6.3	13.5	300		50	9	B5	T		4033A
CV1223	642 300 000		(5)	30	400		62	7.5	B4	T		DET5
CV1237	642 350 000		(5)	25	200	200	87	3	B5	P		PM24D
CV1238	642 350 000		(5)	25	200	200	87	3	B5	P		PM24D
CV1242	642 300 000		4	0	150		75	3	B4	T		
CV1246	642 300 000		2	7.5	100		8	2.1	B4	T		P2
CV1264	892 300 000		(5)				120		B4	RR		FW4-500
CV1267	802 310 000		40				120		B5	R		ID5
CV1268	020 809 030		(5.7)				60		AO8	RR		U50
CV1280	026 540 310	G_1	6.3	3	250	100	5.3	1.1	AO8	H		X64
CV1282	041 231 500	A_1	4	2	200	100	6.5	2.6	B7	P	min mA/V Fig.	AC/S2 Pen.
CV1285	026 447 310		6.3	4.6	250		6	2.3	AO8	TT		ECC31
CV1286	026 540 310		6.3	15	250	250	72	5.5	AO8	P		EL35
CV1287	026 540 310		25	8	150	125	75	10	AO8	P		KT32
CV1290	See Page 44											
CV1291	See Page 44											
CV1300	892 310 000		13				1		B5	DD		10D1
CV1301	028 190 310		6.3				1		AO8	DD		D63

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1302	812 300 000		4				5		B4	D		D42
CV1303	642 300 000		2	0	100		3.6	0.8	B4	T		HL210A
CV1304	642 300 000		2	3	100		4.5	2.2	B4	T		LP2
CV1306	206 090 830	G_1	2	2.8	150		1.5	1.1	MO8	DDT		HL23DD
CV1307	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
CV1308	682 390 000	G_1	2	1.5	100		0.6	1.8	B5	DDT		L21DD
CV1312	642 310 000		2	1	100		0.5	1.3	B5	T		220RG
CV1313	642 310 000		2	0	100		7.5	1.7	B5	T		220LF
CV1319	542 300 000	A_1	2	0	150	75	4.5	1.2	B4	P		VS2
CV1320	041 230 500	A_1	2	0	150	150	3.2	1.8	B7	P		SP2
CV1322	041 230 500	A_1	2	0	100	100	1.4	1.4	B7	P		SP210
CV1324	041 231 500	A_1	4	2	200	100	3	2.3	B7	P		SP4
CV1325	041 231 500	A_1	(5)	3	250	200	34	8.5	B7	P		42MPT
CV1326	045 231 600		(5)	9.5	250	250	55	11	B7	P		AC4/Pen
CV1327	045 231 600		13	6	250	250	62	7.5	B7	P		Pen 1340
CV1329	005 231 600	G_1	(5)	6	250	250	40	9.1	B7	P		APP4G
CV1330	061 231 500	G_1		1	200	200	10	5.5	B7	P		TSP4
CV1331	206 510 030	G_1	2	1	100	60	2.1	1.1	MO8	P		VP23
CV1333	040 231 500	A_1	2	0	150	60	4	1	B7	P		220IPT
CV1334	642 350 000		2	3	150	125	5	3.2	B5	P		KT24
CV1335	216 510 030	G_1	4	2	200	200	8	8.5	MO8	P		SP41
CV1336	216 510 030	G_1	4	1	200	125	23	8.5	MO8	P		SP42
CV1338	061 231 500	G_1	2	1	150	60	4	1	B7	P		220VPT
CV1340	041 231 500	A_1	(5)	15	250	250	85	6.3	B7	P		KT44
CV1341	041 231 500	A_1	4	1	200	100	5.5	3.2	B7	P		MSP4
CV1342	206 544 730		2	0	100	100	15	3	MO8	PP		QP25
CV1343	026 510 310	G_1	4	1.5	100	100	5	2.2	AO8	P		KTZ73
CV1344	571 230 640	G_1	2	1	100	min	0.8	1.2	B9	TP		TP22
				1	100	60	1.2	1.0				
CV1345	207 640 530	G_1	2	1	100	min.	3.7	1.6	MO8	TP		TP25
				1.5	100	60	1.0	1				
CV1347	027 546 310	G_1	6.3	2	100	min.	5.4	2.2	AO8	TH		ECH35
				2	250	100	5	2.4				
CV1356	See Page 44											
CV1359	216 040 530		4	22.5	250	250	See Note H		MO8	TI	Ra=1MΩ	ME41
CV1366	200 540 030	A_1	2	10	150	150	32	5.2	MO8	P		V248A
CV1368	041 230 500	A_1	6.3	5	400	250	14	3	B7	P		V226
CV1370	401 235 100	A_1	12.6	25	250	200	40	2	B7	P		PVI-35
CV1374	254 130 000	A_1	6.3	12.5	300	250	83	7.1	UX5	P		807
CV1401	026 540 310		35	8.5	200	200	45	8	AO8	P		CL33
CV1402	020 080 310		20				60		AO8	R		CY31
CV1403	219 080 130		4				1		MO8	DD		DD41
CV1407	216 540 030		4	8.5	250	250	40	8.8	MO8	P		Pen 45

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1408	216 040 030		4	11.8	250		16	4.5	MO8	T		P41
CV1409	041 230 500	A_1	2	1	150	150	3	1.8	B7	P		SP2
CV1412	023 104 560		4	5	250	250	See Note H		8SC	TI	Ra=1MΩ	TV4
CV1413	208 090 030		4				60		MO8	RR		UU6
CV1419	908 231 600	G_1	13	2	250		0.4	1.1	B7	DDT		11D3
CV1425	045 231 600		13	16.5	250	250	34	2.3	B7	P		7D5
CV1427	023 110 560	G_1	6.3	2.5	250	100	6	2.2	8SC	P		EF9
CV1428	023 189 060	G_1	6.3	5.5	250		5	2	8SC	DDT		EBC3
CV1429	023 100 560	G_1	6.3	18.5	250	250	30	2.8	8SC	P		EL2
CV1430	061 231 500	G_1	4	1.7	250	100	7.9	7	B7	P		ACSP3
CV1433	026 040 310		6.3	16	150		20	3.2	AO8	T		EC31
CV1434	023 164 560		6.3	12	250	250	See Note H		8SC	TI	Ra=1MΩ	EM4
				3	250	250					Ra=1MΩ	
CV1438	026 540 310		6.3	4.4	250	250	40	10	AO8	P		KT61
CV1443	892 300 000		4				30		B4	R		U10
CV1444	041 231 500	A_1	4	10.5	250	250	64	11	B7	P		42SPT
CV1454	See Page 44											
CV1456	216 540 030		40	8.8	150	150	50	10.5	MO8	P		Pen383
CV1457	216 510 030	G_1	13	2.7	150	150	8	2.1	MO8	P		VP133
CV1458	642 310 000		4	7.5	200		24	7.5	B5	T		41MP
CV1463	026 985 310	G_1	45	8.5	200	200	45	8	AO8	DDP		CBL31
CV1501	021 450 310	A_1	6.3	11	250	125	30	3.5	AO8	P		E1192
CV1502	026 540 310		25	7.6	150	125	75	9	AO8	P		KT32
CV1503	326 540 210		13	13.3	200	200	60	10	AO8	P		KT33C
CV1505	642 310 000		4	0	100		6.8	6	B5	T		MH41
CV1508	See Page 44											
CV1510	265 511 413		6.3	10	250	150	30	3	B9G	P		
CV1569	892 300 000		(5)				60		B4	RR		
CV1572	254 130 000	A_1	6.3	12.5	300	250	83	7.1	UX5	P		807
CV1573	442 310 000	$A_1 A_2$	12.6	17	300		17	3.2	B5	TT		TVO3-10
CV1574	216 510 030	G_1	4	1.8	200	200	8	8.5	MO8	P		SP41
CV1576	041 231 500	A_1	(5)	15.7	250	250	85	6.2	B7	P		KT44T
CV1577	041 231 500	A_1	(5)	15.7	250	250	85	6.2	B7	P		KT44
CV1581	027 546 310	G_1	6.3	2	100		5.4	2.2	AO8	TH		ECH35
				2	250	100	5	2.4				
CV1584	642 310 000		4	3.5	200		5.4	3.1	B5	T		
CV1586	206 040 030		2	0	100		3	1.5	MO8	T		HL23
CV1598	061 231 500	G_1	13	3	250	125	9.5	1.6	B7	P		9D2
CV1599	061 231 500	G_1	13	3	250	100	2.3	1.2	B7	P		8D2
CV1655	642 300 000		4	8	150		7.5	1.3	B4	T		4019B
CV1656	642 300 000		4	6	100		4.2	1.1	B4	T		LS8
CV1657	642 300 000		2	1.0	100		0.6	0.6	B4	T		4020B
CV1658	642 300 000		2	1.0	100		0.6	0.5	B4	T		LS9B
CV1660	642 300 000		4	3	100		6	2.1	B4	T		LS7

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1663	642 300 000		4	3	100		19	3	B4	T		4021B
CV1667	642 300 000		6.3	25	300			1.2	B4	T		LS5X
CV1670	000 231 600	G_1	13	3	250		10	4	B7	T		4D1
CV1672	145 231 600		35	8.5	200	200	45	7	B7	P		Pen36C
CV1673	642 300 000		2	0	100		3.1	1.5	B4	T		HL2
CV1674	041 231 500	A_1	4	2	200	100	6.5	5.5	B7	P		MS/Pen
CV1675	005 231 600	G_1	4	4.5	250	250	40	10	B7	P		N43
CV1676	642 300 000		4	6	100		16	2.4	B4	T		LS8A
CV1677	542 310 000	A_1	4	1.5	200	100	5	2.5	B5	P		S4VP
CV1678	642 310 000		4	0	100		7	5	B5	T		MH41
CV1681	061 231 500	G_1	4	2.5	200	200	8	4.7	B7	P		TSP4
CV1682	005 231 600	G_1	(5)	6	250	250	40	9.5	B7	P		Pen A4
CV1683	045 231 600		4	5	250	200	40	2.4	B7	P		MP/Pen.
CV1684	145 231 600		(5)	5	250	250	47	10	B7	P		APP4C
CV1685	145 231 600		(5)	5	250	250	47	10	B7	P		APP4C
CV1688	642 310 000		6.3	20	400		55	9	B5	T		4033L
CV1689	642 310 000		4	10	200		40	6.5	B5	T		3B/100B
CV1691	892 310 000		4				5		B5	DD		DDL4
CV1695	892 310 000		13				5		B5	DD		DDL13
CV1696	446 230 700		2	3	100		1.1		B7	TT	check for balance	B21
CV1697	645 231 700	G_1	4	6 3	150 250	 75	5 2.3	1.4 1.4	B7	TH		X41
CV1699	216 510 030	G_1	4	1.8	200	200	8	8.5	MO8	P		SP41
CV1700	216 510 030	G_1	4	1.8	200	200	8	8.5	MO8	P		SP41
CV1701	642 300 000		2	0	40		1.2	1	Sm4	T		XLO
CV1702	642 300 000		2	0	40		4.2	1	Sm4	T		XP
CV1703	251 630 000	G_1	2	0	100	40	0.8	0.5	Sm5	P		XW
CV1704	265 113 000	G_1	2.5	3	250	100	2	1.2	UX6	P		57
CV1705	265 113 000	G_1	2.5	3	250	100	8.4	1.6	UX6	P		58
CV1706	265 891 300	G_1	2.5	3	250	100	6	1.1	UX7	DDP		2B7
CV1707	265 413 000		(3)	16.5	250	250	34	2.5	UX6	P		2A5
CV1708	289 300 000		(5.7)				60		UX4	RR		80
CV1709	265 113 000	G_1	6.3	3	250	100	8.4	1.6	UX6	P		6D6
CV1710	265 113 000	G_1	6.3	3	250	100	2.1	1.2	UX6	P		6C6
CV1711	265 891 300	G_1	6.3	3	250	100	6	1.1	UX7	DDP		6B7
CV1712	265 413 000		6.3	16.5	250	250	34	2.5	UX6	P		42
CV1713	023 111 560	G_1	6.3	2.5	250	250	8	1.8	8SC	P		EF8
CV1714	023 110 560	G_1	6.3	2.5	300	100	6	2.2	8SC	P		EF9
CV1715	023 189 060	G_1	6.3	3	250		9	2	8SC	DDT		EBC3
CV1716	642 300 000		4	19	100		26	4.5	B4	T		E1541
CV1718	571 231 640	G_1	4	3 5	150 250	min 200	1.5 5.5	1.4 1.6	B9	TP		AC/TP
CV1722	045 231 600		5	7.5	150	125	70	10	B7	P		A901
CV1723	206 510 030	G_1	2	1	150	125	1.8	2.3	MO8	P		V257

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1724	026 510 310	G_1	7.5	18	150	150	42	2.5	AO8	P		5A/120D
CV1726	026 501 310	G_1	4	1	250	100	15	10	AO8	P		5A/105A
CV1727	041 230 500	A_1	2	1	150	125		1.4	B7	P		SP210
CV1732	642 310 000		4	8	200		19.5	3.7	B5	T		ML4
CV1735	642 310 000		35	0	100			3.7	B5	T		DC2/P
CV1751	365 200 000	G_1	2	3	150	75	2.8	0.6	UX4	P		34
CV1752	265 130 000	G_1	2.5	3	250	90	6.5	1.0	UX5	P		35
CV1753	265 004 130		35	8	200	100	41	5.9	B8G	P		35A5LT
CV1755	026 040 310		12.6	32	250		20	2.1	AO8	T		1626
CV1756	026 540 310		12.6	8	250	250	See Note H		AO8	T1	Ra=1MΩ	1629
CV1757	412 365 100		6.3	3	250	100	2	1.4	B7G	P		9001
CV1758	265 024 300		1.4	0	90	90	4.5	1.0	B7G	P		1L4
CV1759	020 000 310	$A_1 G_1$	6.3	15	350		16		AO8		See Note B	2C26A
CV1762	412 365 100		6.3	11	200	200	15	2.3	B7G	P		6AK6
CV1763	412 344 600		6.3	1.5	150		15	12	B7G	T		6J4
CV1769	268 913 000	G_1	2.5	2	250		0.9	1.1	UX6	DDT		2A6
CV1770	260 004 130		6.3	8	250		9	2.6	B8G	T		7A4
CV1771	265 130 000	G_1	6.3	3	250	90	5.8	1.0	UX5	P		39
CV1772	264 530 000		2.5	16.5	250	250	31	2.5	UX5	P		47
CV1775	265 130 000	G_1	6.3	3	250	90	3.2	1.0	UX5	P		36
CV1776	265 101 300	G_1	6.3	3	250	100	2	1.2	Sm7	P		6D7
CV1777	265 114 130		6.3	3	250	100	2	1.3	B8G	P		7C7
CV1784	120 415 360		6.3	3	300	150	30	11	AO8	P		6AK7
CV1790	209 008 130		6.3				60		B8G	RR		7Z4
CV1796	892 300 000		4				60		B4	RR		DW4/350
CV1800	026 546 300	G_1	1.4	0	90	40	1.8	0.5	AO8	H		1A7G
CV1802	026 546 300	G_1	1.4	0	90	40	1.8	0.5	AO8	H		1A7GT
CV1803	036 540 200		1.4	7.5	90	90	7.5	1.5	AO8	P		1C5
CV1805	036 540 200		1.4	7.5	90	90	7.5	1.5	AO8	P		1C5GT
CV1806	036 500 200	G_1	2	3	150	75	2.2	0.6	AO8	P		1D5GT
CV1811	037 546 280	G_1	1.4	9	90 90	min 90	1.1 5	0.5 0.9	AO8	DTP		1D8GT
CV1812	036 447 250		2	3	90	90	3.8	1.1	AO8	PP		1E7G
CV1816	020 000 300	D_1	6.3				5		AO8	R		6Y3G
CV1817	036 040 200		1.4	6	90		2.3	0.8	AO8	T		1G4GT
CV1818	036 080 200	G_1	1.4	0	90		0.15	0.3	AO8	DT		1H5G
CV1819	026 040 310		6.3	13.5	250		5	1.4	AO8	T		6P5GT
CV1820	036 080 200	G_1	1.4	0	90		0.15	0.3	AO8	DT		1H5GT
CV1821	036 500 200	G_1	1.4	0	90	90	1.2	0.7	AO8	P		1N5G
CV1823	036 500 200	G_1	1.4	0	90	90	1.2	0.7	AO8	P		1N5GT
CV1824	036 540 200		1.4	4.5	90	90	9.5	2.2	AO8	P		1Q5G
CV1825	041 231 500	A_1	4	15	250	250	85	6.3	B7	P		KT45
CV1826	036 540 200		1.4	4.5	90	90	9.5	2.2	AO8	P		1Q5GT
CV1829	036 540 200		1.4	6	90	90	6.5	1.1	AO8	P		1T5

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1831	264 300 000		2.5	20	150		55	5.2	UX4	T		2A3
CV1834	265 413 000		2.5	16.5	250	250	34	2.5	UX6	P		2A5
CV1837	265 891 300	G_1	2.5	3	250	125	9	1.1	UX7	DDP		2B7
CV1838	273 624 540		3	10	300	200	20	2	B8G	PP		QQZ04/15
CV1839	260 154 130		6.3	1.8	200	200	10	9	B8A	P		6F13
CV1846	020 809 030		5				120		AO8	RR		5T4
CV1849	020 809 030		5				60		AO8	RR		5W4
CV1850	274 164 130		6.3	1.8	200		5	3.1	B8A	TT		6L19
CV1851	008 090 230		5				120		AO8	RR		5X4G
CV1852	008 090 230		5				120		AO8	RR		5X4
CV1853	026 540 310		6.3	8.5	250	250	40	8.8	AO8	P		6P25
CV1854	020 809 030		5				60		AO8	RR		5Y3G
CV1855	290 008 130		6.3				30		B8A	RR		UU9
CV1856	020 809 030		(5.7)				60		AO8	RR		5Y3GT
CV1857	008 090 230		5				60		AO8	RR		5Y4G
CV1861	289 300 000		(5.7)				120		UX4	RR		5Z3
CV1862	412 365 400		6.3	12.5	250	250	45	4.1	B7G	P		6AQ5
CV1863	030 809 020		(5.7)				60		AO8	RR		5Z4G
CV1864	030 809 020		5				60		AO8	RR		5Z4
CV1865	401 230 060		6.3	2	150		30	5.5	B9A	T		EC81
CV1867	274 146 300		6.3	5	250		6	3.1	UX7	TT		6A6
CV1870	265 541 300	G_1	6.3	8	250	100	3.5	1.1	Sm7	H		6A7
CV1873	021 415 360		6.3	3	300	200	12.5	5	AO8	P		6AB7
CV1878	427 546 310		6.3	25 16.5	250 250	min 250	4 34	0.3 2.5	AO8	TP		6AD7G
CV1879	041 231 500	A_1	4	2	250	125	5.4	2.8	B7	P		MS/Pen T
CV1882	120 415 360		6.3	3	300	150	30	11	AO8	P		6AG7
CV1886	441 230 446		6.3	1.5	250		15	12	B9A	T		EC8O
CV1887	026 980 310	G_1	6.3	2	250		0.9	1.1	AO8	DDT		6B6G
CV1891	265 981 300	G_1	6.3	3	250	125	9	1.1	Sm7	DDP		6B7
CV1893	026 985 310	G_1	6.3	3	250	125	9	1.1	AO8	DDP		6B8G
CV1894	026 985 310	G_1	6.3	3	250	125	9	1.1	AO8	DDP		6B8
CV1896	026 147 310	G_1	6.3	4.5	250		3.2	1.6	AO8	TT		6C8G
CV1899	260 004 130		6.3	13.3	250		12	5.5	B8A	T		6L18
CV1900	265 113 000	G_1	6.3	3	250	100	8	1.6	UX6	P		6D6
CV1901	260 154 130		6.3	1.8	250	100	4.4	2.2	B8A	P		6F11
CV1906	264 513 000		6.3	7.5	250	250	0.2		UX6	TI	Ra=1MΩ	6E5
CV1908	020 600 310	G_1	6.3	2	250		0.9	1.5	AO8	T		6F5G
CV1909	020 600 310	G_1	6.3	2	250		0.9	1.5	AO8	T		6F5
CV1910	020 600 310	G_1	6.3	2	250		0.9	1.5	AO8	T		6F5GT
CV1911	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		6F6G
CV1912	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		6F6
CV1915	275 641 300	G_1	6.3	3 3	100 100	min 100	3.5 6.3	0.5 1.0	Sm7	TP		6F7

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1917	027 146 310	G_1	6.3	8	250		9	2.6	AO8	TT		6F8G
CV1919	260 154 130		6.3	1.25	150	150	28	10.6	B8A	P		6F14
CV1920	264 098 130		6.3	5.9	250		5	2.3	B8A	DDT		6LD20
CV1921	See Page 44											
CV1926	026 540 310		6.3	6	150	150	12.5	2.2	AO8	P		6G6G
CV1928	412 365 100		12.6	1	250	100	11	4.4	B7G	P		12BA6
CV1929	029 180 310		6.3				1		AO8	DD		6H6G
CV1930	029 180 310		6.3				1		AO8	DD		6H6
CV1931	029 180 310		6.3				1		AO8	DD		6H6GT
CV1932	026 040 310		6.3	8	250		9	2.6	AO8	T		6J5G
CV1933	026 040 310		6.3	8	250		9	2.6	AO8	T		6J5
CV1934	026 040 310		6.3	8	250		9	2.6	AO8	T		6J5GT
CV1935	026 510 310	G_1	6.3	3	250	100	2	1.2	AO8	P		6J7G
CV1936	026 510 310	G_1	6.3	3	250	100	2	1.2	AO8	P		6J7
CV1937	026 510 310	G_1	6.3	3	250	100	2	1.2	AO8	P		6J7GT
CV1938	026 540 310		6.3	18	250	250	32	2.3	AO8	P		6K6G
CV1940	026 540 310		6.3	18	250	250	32	2.3	AO8	P		6K6GT
CV1941	026 510 310	G_1	6.3	3	250	100	7	1.4	AO8	P		6K7G
CV1942	026 510 310	G_1	6.3	3	250	100	7	1.4	AO8	P		6K7
CV1943	026 510 310	G_1	6.3	3	250	100	7	1.4	AO8	P		6K7GT
CV1944	027 546 310	G_1	6.3	1 3	100 250	 100	8 4	2.5 1.2	AO8	TH		6K8G
CV1945	027 546 310	G_1	6.3	1 3	100 250	 100	8 4	2.5 1.2	AO8	TH		6K8
CV1946	027 546 310	G_1	6.3	1 3	100 250	 100	8 4	2.5 1.2	AO8	TH		6K8GT
CV1947	026 540 310		6.3	14	250	250	72	6	AO8	P		6L6G
CV1948	026 540 310		6.3	14	250	250	72	6	AO8	P		6L6
CV1950	026 540 310	G_1	6.3	3	250	100	5.3	1.1	AO8	H		6L7G
CV1951	026 540 310	G_1	6.3	3	250	100	5.3	1.1	AO8	H		6L7
CV1956	027 446 310		6.3	5	250		3	1.6	AO8	TT		6N7G
CV1957	027 446 310		6.3	5	250		3	1.6	AO8	TT		6N7
CV1958	027 446 310		6.3	5	250		3	1.6	AO8	TT		6N7GT
CV1959	142 345 600		50	7.5	100	100	50	7.5	B7G	P		50C5
CV1960	025 060 310	G_1	6.3	3	250	100	7	1.4	AO8	P		6R6G
CV1961	412 365 100		12.6	1	250	150	10.8	5.2	B7G	P		12AU6
CV1962	026 980 310	G_1	6.3	9	250		9.5	1.9	AO8	DDT		6R7G
CV1963	026 980 310	G_1	6.3	9	250		9.5	1.9	AO8	DDT		6R7
CV1964	026 980 310	G_1	6.3	9	250		9.5	1.9	AO8	DDT		6R7GT
CV1966	126 641 310		6.3	3.6	100		12	4.3	AO8	H		6SA7
CV1967	126 641 310		6.3	3.6	100		12	4.3	AO8	H		6SA7GT
CV1969	074 461 230		6.3	2	250		2	1.3	AO8	TT		6SC7
CV1970	074 461 230		6.3	2	250		2	1.3	AO8	TT		6SC7GT

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV1972	014 060 320		6.3	2	250		0.9	1.5	AO8	T		6SF5
CV1973	014 060 320		6.3	2	250		0.9	1.5	AO8	T		6SF5GT
CV1974	026 510 310	G_1	6.3	3	250	100	8.5	1.7	AO8	P		6S7G
CV1977	260 054 130		45	14.2	200	200	45	9.5	B8A	P		UL41
CV1978	021 415 360		6.3	1	250	125	11.8	4.7	AO8	P		6SG7
CV1979	020 540 310	A_1	6.3	20	200	200	40	4	AO8	P		61BT
CV1980	020 540 310	A_1	18	8	200	100	75	9.5	AO8	P		185BT
CV1981	021 415 360		6.3	3	250	100	9.2	2	AO8	P		6SK7
CV1982	021 415 360		6.3	3	250	100	9.2	2	AO8	P		6SK7GT
CV1985	471 461 230		6.3	2	250		2.3	1.6	AO8	TT		6SL7GT
CV1988	471 461 230		6.3	8	250		9	2.6	AO8	TT		6SN7GT
CV1989	082 310 000		6.3				5		B7G	D		SD6
CV1990	041 896 230		6.3	2	250		0.9	1.1	AO8	DDT		6SQ7
CV1991	041 896 230		6.3	2	250		0.9	1.1	AO8	DDT		6SQ7GT
CV1993	021 415 360		6.3	3	250	100	9	1.8	AO8	P		6SS7
CV1995	026 510 310	G_1	6.3	3	250	100	8.5	1.7	AO8	P		6S7
CV1996	041 896 230		6.3	9	250		9.5	1.9	AO8	DDT		6ST7
CV2000	412 361 500		6.3	2	250	250	10	7.5	Special	P	"See Note J"	
	412 361 500		6.3	1.5	200	150	4	6.4	Special	P	"See Note E"	
CV2001	412 361 500		6.3	2	250	250	10	7.5	Special	P	"See Note J"	
	412 361 500		6.3	1.5	200	150	4	6.4	Special	P	"See Note E"	
CV2002	412 360 500		6.3	13.5	250	250	16	2.6	Special	P	"See Note J"	
CV2003	412 360 500		6.3	13.5	250	250	16	2.6	Special	P	,, ,, ,,	
CV2004	192 310 800		6.3				5		Special	RR	,, ,, ,,	
CV2005	192 310 800		6.3				5		Special	RR	,, ,, ,,	
CV2007	741 226 413		6.3	8.5	250		10.5	2.2	Special	TT	,, ,, ,,	
CV2008	412 300 600		6.3	2.2	150		10	8	Special	T	,, ,, ,,	
CV2009	412 314 600		6.3	1.5	250		10	8.5	Special	T	,, ,, ,,	
CV2010	762 344 100		6.3	1	100		8.5	5.6	Special	TT	,, ,, ,,	
CV2011	741 226 413		6.3	2	250		1.2	1.6	Special	TT	,, ,, ,,	
CV2013	041 230 651		6.3	4.5	250	250	40	11	Special	P	,, ,, ,,	
CV2014	601 235 144		6.3	7.5	250	250	45	7	Special	P	,, ,, ,,	
CV2016	741 226 413		6.3	2	250		10.5	5.5	Special	TT	,, ,, ,,	
CV2017	412 361 500		6.3	4	200	200	5.8	3.5	Special	P	,, ,, ,,	
CV2020	412 365 100		6.3	2	150	125	7.5	5	Special	P	,, ,, ,,	
CV2021	902 308 100		6.3				30		Special	RR	,, ,, ,,	
CV2022	441 230 561		6.3	12.5	250	250	45	4.1	Special	P	,, ,, ,,	
CV2101	040 230 650		1.25	0	75	75	2	1	B8D	P	See Note G	
CV2102	040 230 650		1.25	2.5	90	90	1.7	0.85	B8D	P	,, ,, ,,	
CV2103	040 230 650		1.25	0	75	75	1.9	0.95	B8D	P	,, ,, ,,	
CV2104	604 238 050		1.25	2.3	90	90	0.7	0.4	B8D	DP	,, ,, ,,	
CV2105	040 230 650		1.25	7.5	150	90	7.7	1.9	B8D	P	,, ,, ,,	
CV2106	653 420 000		1.25	1	20	20	0.1	0.35	B5A	P	See Note D	DL66
CV2107	653 420 000		0.625	0.6	20	20	0.6	0.1	B5A	P		DF66

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV2115	See Page 44											
CV2127	041 230 651		6.3	4.5	250	250	40	11	B9A	P		6CH6
CV2128	541 237 164		6.3	1 2	100 250	 100	10.5 6.5	3.4 2.4	B9A	TH		ECH81
CV2129	601 235 144		6.3	7.5	250	250	45	7	B9A	P		5763
CV2135	041 230 651		6.3	3	250	100	2.1	1.2	B9A	P		6BR7
CV2136	441 230 561		6.3	12.5	250	250	45	4.1	B9A	P		6BW6
CV2156	241 657 143		20	14	250	150	30	3.9	B9G	PP		
CV2172	402 320 060		1.25	2	150		20	3.5	B9A	T		DC80
CV2179	412 360 500		6.3	7.8	150	150	55	9.5	B7G	P		E2134
CV2180	See Page 44											
CV2195	412 361 500 412 361 500		6.3 6.3	2 1.5	250 200	250 150	10 4	7.5 6.4	B7G B7G	P P	 See Note E	
CV2204	346 000 000	H—	6.3	1	250		20	3	Disc seal	T	min fig for mA/V	
CV2207	346 000 000	H—	6.3	1	250		20	3	Disc seal	T	min fig for mA/V	
CV2209	412 361 500		6.3	4	200	200	5.8	3.5	B7G	P		
CV2212	741 226 413		6.3	4.6	250		6	2.3	B9A	TT		
CV2214	214 444 130	A_1	6.3	1	300		50	27	B8G	T		3B/240M
CV2218	001 230 000	D_1	6.3				120		B9A	R		
CV2220	265 144 130		12.6		300	250	72	6	B8G	P		
CV2231	041 230 051	A_1	6.3	12.5	150	150	50	8.5	B9A	P		E2266
CV2235	001 230 000	D_1	6.3				120		B9A	R		E2214
CV2237	652 430 000		1.25	0	40	40	3	2	B5A	P	See Note D	1AD4
CV2238	653 420 000		1.25	6.5	75	75	3.2	0.6	B5A	P	„ „ „	5672
CV2239	634 200 000		1.25	5	150		4	1.6	B5A	T	„ „ „	5676
CV2240	524 332 600		1.25	25	200	150	19.5	1.8	B7G	P		3B4
CV2243	041 230 651		6.3	2	200	125	17	8.4	B9A	P		PSG8
CV2260	653 420 000		0.625	0.6	20	20	0.6	0.1	B5A	P		O2DF
CV2264	652 430 000		1.25	0	75	75	1.8	1.1	B5A	P		5678
CV2275	400 230 060		1.25	4.5	150		12	3.4	B8D	T		
CV2277	041 230 651		25	2.5	20	20	14	4.0	B9A	P		E2221
CV2288	653 420 000		1.25	1.4	20	20		0.35	B5A	P	See Note D	DL66
CV2299	040 230 650		1.25	9	100	100	15	2.5	B8D	P		
CV2300	365 426 300		1.4	8.4	150	90	13	2	B7G	P		3A4
CV2500	020 080 310		35				60		AO8	R		35Z4GT
CV2501	See Page 44											
CV2502	642 310 000		4	18	250		19	2.8	B5	T		41FP
CV2503	642 310 000		4	1.5	200		3.2	4	B5	T		41MH
CV2504	642 310 000		4	3	200		4	4.5	B5	T		41MHL
CV2506	041 231 500	A_1	4	1.5	250	100	12	4.8	B7	P		41MPT
CV2507	265 024 300		1.4	0	90	90	1.6	0.9	B7G	P		1U4
CV2510	232 232 300	D_1	1.4				1		B7G	D		1Z2
CV2511	045 231 600		4	5.5	250	250	34	7	B7	P		420T
CV2512	968 231 500	G_1	4	5.5	250	250	34	7	B7	DDP		420TDD

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV2514	265 413 000		25	18	150	125	33	2.3	UX6	P		43
CV2517	413 365 200		3	20	250	250	40	3.7	B7G	P		2E30
CV2521	412 365 100		6.3	2	300	150	10	9	B7G	P		6AH6
CV2522	412 365 100		6.3	2	150	125	5.5	3.5	B7G	P		6SA6
CV2523	471 461 230		6.3	40	100		53	7	AO8	TT		6AS7G
CV2524	412 365 100		6.3	1	250	150	10.6	5.2	B7G	P		6AU6
CV2526	412 389 600		6.3	2	250		1.2	1.6	B7G	DDT		6AV6
CV2527	641 231 106		6.3	2	100		18	7	B9A	H		6BA7
CV2529	892 300 000		4				120		B4	RR		451U
CV2530	020 080 310		45				60		AO8	R		45Z5GT
CV2531	264 630 000		2.5	33	250		22	2.3	UX5	T		46
CV2532	264 630 000		2	20	150		6	1.1	UX5	T		49
CV2534	026 540 310		50	8.2	200	125	46	8	AO8	P		50L6G
CV2535	274 146 300		2.5	5	250		6	3.1	UX7	TT		53
CV2536	274 146 300		2.5	5	250		6	3.1	UX7	TT		53A
CV2537	269 813 000	G_1	2.5	20	250		8	1.1	UX6	DDT		55
CV2538	265 411 300		2.5	18	250	250	35	2.5	UX7	P		59
CV2541	264 300 000		5	16.5	90		10	1.4	UX4	T		71A
CV2544	265 113 000	G_1	6.3	3	250	125	10.5	1.6	UX6	P		78
CV2545	274 163 000	G_1	6.3	0	250		5.3	1.8	UX6	TT		79
CV2546	280 300 000		7.5				60		UX4	R		81
CV2547	398 200 000		5				60		UX4	RR		83V
CV2548	289 130 000		6.3				30		UX5	RR		84
CV2549	269 813 000	G_1	6.3	20	250		8	1.1	UX6	DDT		85
CV2556	126 458 310		117	 5.2	 100	 100	60 43	 5.3	AO8	RP		117L7GT
CV2558	029 180 310		117				60		AO8	RR		117Z6GT
CV2562	642 310 000		4	9	200		12	3.4	B5	T		164V
CV2569	642 300 000		2	4.5	150		3	1.1	B4	T		210DET
CV2570	642 300 000		2	3	150		1.6	1.5	B4	T		210HF
CV2571	642 300 000		2	3	150		1.6	1.1	B4	T		210HL
CV2574	041 230 500	A_1	2	0	150	60	2.9	1.1	B7	P		210VPA
CV2575	214 607 413		6.3	2	150		8.2	5.5	B9A	TT		5670
CV2578	641 221 437		6.3	12.5	250		16	4.1	B9A	TT		5687
CV2581	642 350 000		2	4.5	150	150	9.5	2.5	B5	P		220/OT
CV2582	542 300 000	A_1	2	0	150	60	3.6	1.6	B4	P		220VS
CV2586	446 230 700		2	0	100		8.5		B7	TT	Check for balance	240B
CV2640	See Page 44											
CV2644	892 300 000		4				60		B4	RR		460BU
CV2645	892 300 000		4				30		B4	RR		506BU
CV2659	320 504 210	A_1	6.3		400	300	30	5.5	AO8	P		3D21A
CV2662	412 163 510		6.3	2	150	100	20	9	B8D	P	See Note G	5639
CV2698	812 093 100		6.3				15		B8D	RR	See Note G	5896
CV2699	652 430 000		1.25	1.25	40	40	0.7	0.6	B5A	P	See Note D	6088

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV2707	265 104 130		6.3	30	300	300	13	6.3	B8G	P		1231
CV2710	365 004 230		1.4	6	150	90	5.7	2.2	B8G	P		3D6
CV2713	264 530 000		2.5	16.5	250	250	31	2.5	UX5	P		1610
CV2714	026 540 310		6.3	18	350	250	54	5.2	AO8	P		1614
CV2716	074 461 230		6.3	2	250		2	1.3	AO8	TT		1655
CV2718	See Page 44											
CV2721	041 230 051	A_1	6.3		250	250	32	4.6	B9A	P		EL81
CV2742	265 024 300		1.4	0	90	90	4.5	1.0	B7G	P		
CV2747	026 540 310		6.3	17	250	250			AO8	TI	Ra=1MΩ	6U5G
CV2748	030 908 020		(5.7)				120		AO8	R		5Z4GT
CV2769	812 380 100		6.3				5		B7G	R		9006
CV2795	265 024 300		1.4	0	90	90	4.5	1.0	B7G	P		
CV2796	026 540 310		6.3	18	350	250	54	5.2	AO8	P		6L6WGB
CV2806	642 310 000		4	1.75	200		4.9	5	B5	T		AC/2HL
CV2807	642 310 000		4	1.75	200		4.9	5	B5	T		AC/2HL
CV2808	045 231 600		4	5.3	250	250	32	8.5	B7	P		AC/2Pen
CV2809	045 231 600		4	8.5	250	250	40	9.4	B7	P		AC/5Pen
CV2813	809 231 600	G_1	4	3	200		4.9	2.6	B7	DDT		AC/HLDD
CV2815	642 310 000		4	13.5	200		17	2.75	B5	T		AC/P
CV2817	026 540 310		6.3	18	350	250	54	5.2	AO8	P		6L6GA
CV2820	041 231 500	A_1	4	3	200	200	4.9	2.7	B7	P		AC/SP1
CV2821	461 471 230		6.3	4	250		9	3.6	AO8	TT		ECC33
CV2822	542 310 000	A_1	4	1.5	200	60	4.5	1.9	B5	P		AC/SG
CV2823	061 231 500	G_1	4	1.7	250	100	7.9	7	B7	P		AC/SP3
CV2830	645 231 700	G_1	4	2.7 3	75 250	 100	6 3	3 3.5	B7	TH		AC/TH1
CV2831	214 607 413		6.3	2	150		8.2	5.5	B9A	TT		2C51
CV2832	061 231 500	G_1	4	2.8	250	200	7.4	2	B7	P		AC/VP2
CV2833	023 110 560	G_1	4	3	250	100	8	1.8	8SC	P		AF3
CV2835	030 809 020		5				60		AO8	RR		5R4WGY
CV2842	602 364 100		6.3	8.5	250		10.5	2.2	B7G	T		6C4W
CV2843	762 344 100		6.3	1	100		8.5	5.6	B7G	TT		6J6W
CV2844	802 309 100		6.3				30		B7G	RR		6K4W
CV2854	412 365 100		6.3	6	150	125	35	8	B7G	P		6AN5
CV2858	320 200 000	D_1	2.5				30		UX4	R		3B24W
CV2860	023 080 090		4				30		8SC	RR		AZ1
CV2861	023 080 090		4				60		8SC	RR		AZ2
CV2862	020 809 030		4				30		AO8	RR		AZ31
CV2864	447 230 600		2	6	150		2.2		B7	TT	check for balance	B21
CV2866	214 607 413		6.3	2	150		8.2	5.5	B9A	TT		2C51W
CV2875	023 100 560	G_1	30	8.5	200	200	45	8	8SC	P		CL4
CV2877	412 365 100		6.3	3	150	150	7	4.3	B7G	P		6AK5W
CV2882	192 310 800		6.3				5		B7G	RR		6AL5W
CV2883	412 365 400		6.3	12.5	250	250	45	4.1	B7G	P		6AQ5W

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV2884	412 365 100		6.3	2	150	125	5.5	3.5	B7G	P		6AS6W
CV2888	120 540 310	A_1	6.3	9	300	250	91	14	AO8	P		EL31
CV2889	892 310 000		6.3				1		B5	DD		DD620
CV2890	908 231 600	G_1	4	3	200		3	2.4	B7	DDT		DDT
CV2901	501 236 014		6.3	1	250	100	3	1.8	B9A	P		EF86
CV2907	032 000 560	G_1	1.4	0	90	90	1.2	0.75	8SC	P		DF1
CV2909	026 890 310	G_1	6.3	1	250			2	AO8	DDT		DH73M
CV2911	032 004 560		1.4	7.5	90	90	7.5	1.5	8SC	P		DL2
CV2912	026 890 310	G_1	6.3	3	250		4.2	1.6	AO8	DDT		DL63
CV2925	032 198 560	G_1	6.3	2	250	100	5	1.8	8SC	DDP		EBF2
CV2926	026 895 310	G_1	6.3	6	250	250	36	9.5	AO8	DDP		EBL31
CV2938	026 540 310		6.3	6	250	250	36	9	AO8	P		EL33
CV2940	026 540 310		6.3	7	250	250	72	14.5	AO8	P		EL36
CV2941	023 114 500	A_1	6.3	14	250	250	72	8.5	8SC	P		EL50
CV2959	289 300 000		2.5				120		UX4	RR		3B21
CV2977	642 300 000		2	1	150		2.5	0.8	B4	T		H2
CV2978	642 300 000		2	1.5	100		0.6	1.2	Sm4	T		H12
CV2979	000 231 600	G_1	13	1.5	250		7.5	6	B7	T		H30
CV2985	682 390 000	G_1	2	1.5	150		1.7	1.4	B5	DDT		HD24
CV2991	642 300 000		2	1.5	150		2.2	1.5	B4	T		HL2
CV2995	206 080 930	G_1	2	2.8	150		1.5	1.0	MO8	DDT		HL23DD
CV2996	216 090 830	G_1	4	5.2	250		6	2.2	MO8	DDT		HL41DD
CV2998	216 000 030	G_1	13	3.3	200		6	2.9	MO8	T		HL133
CV2999	216 090 830	G_1	13	5.4	250		6	2.3	MO8	DDT		HL133DD
CV3500	642 300 000		2	1	100			0.7	B4	T		HL210
CV3502	000 231 600	G_1	13	3.3	200		6	3	B7	T		HL1320
CV3503	809 231 600	G_1	13	3	200		4.3	1.9	B7	DDT		HLDD1320
CV3519	045 231 600		13	12	250	250	40	3.9	B7	P		KT30
CV3520	305 221 600	G_1	13	4	200	200	40	10	B7	P		KT31
CV3527	026 510 310	G_1	6.3	3	250	100	6.5	1.7	AO8	P		KTW73M
CV3529	061 231 500	G_1	4	1.5	250	250	18	12	B7	P		KTZ41
CV3530	026 500 310	G_1	6.3	3	250	100	2	1.5	AO8	P		KTZ73
CV3531	642 300 000		2	3.8	150		4	1.5	B4	T		L2
CV3532	642 300 000		2	6	150		2.2	1.8	B4	T		L21
CV3533	206 080 930	G_1	2	4.2	150		4	1.5	AO8	DDT		L22DD
CV3534	040 231 600		13	8	200		25	4.2	B7	T		L30
CV3546	908 231 600	G_1	4	4	250		4	2.2	B7	DDT		MHD4
CV3553	542 310 000	A_1	4	1	200	75	3.4	3.2	B5	P		MS4B
CV3565	216 040 530		4	22.5	250	250			MO8	TI	Ra = 1MΩ	ME41
CV3567	002 300 000	D_1	4				60		B4	R		MU1
CV3572	061 231 500	G_1	4	1.5	200	100	4.3	2.2	B7	P		MVS Pen B
CV3578	642 350 000		2	3	150	150	5	3	B5	P		PM22D
CV3620	642 300 000		2	7.5	150		6	3	B4	T		P220
CV3621	642 300 000		4	12	150		8	1.5	B4	T		P410

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV3626	045 231 600		4	13	250	250	60	8.0	B7	P		Pen B4
CV3630	216 540 030		4	10	300	250	60	9.5	MO8	P		Pen 44
CV3631	216 590 830	G_1	4	8.5	250	250	40	8.8	MO8	DDP		Pen 45DD
CV3633	642 350 000		2	2.5	150	125	5	3.6	B5	P		Pen 231
CV3635	045 231 600		13	8.6	250	250	41	6.4	B7	P		Pen 1340
CV3641	642 300 000		2	1.5	150		2.3	1.2	B4	T		PM1HL
CV3642	642 300 000		2	6	150		3	0.9	B4	T		PM1LF
CV3643	642 300 000		2	6	150		5	2	B4	T		PM2A
CV3645	642 300 000		2	5	150		2.3	1.0	B4	T		PM2DX
CV3647	642 350 000		2	4.5	150	150	5.6	2.2	B5	P		PM22A
CV3648	642 350 000		4	40	300	300	83	3.9	B5	P		PM24E
CV3649	642 350 000		2	10	150	150	15	1.3	B5	P		PM22
CV3656	642 300 000		4		150	150	15	2	B5	P		PT425
CV3658	401 235 100	A_1	12	25	250	200	40	2	B7	P		PV1-35
CV3691	542 300 000	A_1	2	0	150	75	2.8	1.1	B4	P		S23
CV3692	542 300 000	A_1	2	0	150	75	2.8	1.1	B4	P		S23
CV3695	542 300 000	A_1	2	1.5	150	90	2.7	1.5	B4	P		S215
CV3696	542 300 000	A_1	2	0	150	60	2	1.1	B4	P		S215A
CV3702	542 300 000	A_1	2	1.5	150	75	2.7	1	B4	P		SG215
CV3703	061 231 500	G_1	4	2.4	250	250	4	3.4	B7	P		SP4B
CV3704	061 231 500	G_1	13	2.2	200	200	2.5	2.8	B7	P		SP13C
CV3721	123 000 000	D_1	4				1		B3G	D		T4D
CV3726	682 390 000	G_1	2	1.5	150		1.9	1.2	B5	DDT		TDD2A
CV3727	908 231 600	G_1	4	7	250		4	2	B7	DDT		TDD4
CV3735	207 640 530	G_1	2		60	min	0.9		MO8	TP		TP26
				2	100	60	1.2	0.5				
CV3743	892 300 000		5				15		B4	RR		U5
CV3747	802 300 000		6.3				120		B4	R		U15
CV3750	See Page 44											
CV3751	See Page 44											
CV3752	391 221 800		13				60		B7	RR		U30
CV3753	020 080 310		26				120		AO8	R		U31
CV3758	091 231 800		30				60		B7	RR		UR3C
CV3759	892 300 000		4				60		B4	RR		UU4
CV3761	208 090 030		4				60		MO8	RR		UU7
CV3766	602 310 000	G_1	4	4.8	250		6	2.3	B5	T		V312
CV3787	041 230 500	A_1	2	1	150	150	3	1.5	B7	P		VP2
CV3790	061 231 500	G_1	13	2	200	200	9	2.2	B7	P		VP13C
CV3792	206 510 030	G_1	2	1.5	100	60	1.4	1.0	MO8	P		VP23
CV3796	061 231 500	G_1	13	2.8	250	200	7.4	2	B7	P		VP1322
CV3800	542 300 000	A_1	2	2.5	100	60	2	1.4	B4	P		VS2
CV3802	542 300 000	A_1	2	0	150	75	4.4	1.5	B4	P		VS24
CV3804	040 230 500	A_1	2	1	150	125	3.6	1.4	B7	P		W21
CV3806	041 231 500	A_1	13	2	200	100	8	2.7	B7	P		W31

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
CV3810	560 231 890	G_1	13	1	250	100	7	2.6	B9	DDP		WD30
CV3832	642 300 000		2	4.5	75		4	1	Sm4	T		XP2
CV3833	542 300 000	A_1	2	0	60	30	0.6	0.4	Sm4	P		XSG.2.0.
CV3836	542 300 000	A_1	2	0	150	125	2.5	1.7	B4	P		Z21
CV3837	041 230 500	A_1	2	0	150	125	2.5	1.7	B7	P		Z21
CV3838	026 510 310	G_1	6.3	2	300	150	10	7.5	AO8	P		Z62
CV3839	026 510 310	G_1	6.3	1.5	200	200	10.9	8.5	AO8	P		Z66
CV3881	201 908 130		6.3				5		B8A	RR		EB41
CV3882	264 098 130		6.3	3	250		1	1.3	B8A	DDT		EBC41
CV3883	268 154 130		6.3	2	250	90	5	1.8	B8A	DP		EAF42
CV3884	274 164 130		6.3	5.2	250		6	2.7	B8A	TT		ECC40
CV3885	260 145 130		6.3	2	250	150	3	1.8	B8A	P		EF40
CV3886	261 154 130		6.3	2.5	250	100	6	2.2	B8A	P		EF41
CV3887	260 154 130		6.3	2	250	250	10	9.5	B8A	P		EF42
CV3888	276 454 130		6.3	2	100		5	2.2	B8A	TH		ECH42
				2	250	100	3	2				
CV3889	260 054 130		6.3	7	250	250	36	10	B8A	P		EL41
CV3890	261 054 130		6.3	10	200	200	20	3.2	B8A	P		EL42
CV3891	280 009 130		6.3				30		B8A	RR		EZ40
CV3892	080 009 230		4				30		B8A	RR		AZ41
CV4001	902 308 100		6.3				30		Special	RR	See Note J	
CV4002	412 361 500		6.3	2	250	250	10	7.5	Special	P	See Note J	
CV4007	192 310 800		6.3				5		B7G	RR		5726
CV4008	402 013 060		6.3	1	100		0.7	1.7	B8D	T		5719
CV4009	412 365 100		6.3	1	250	100	11	4.4	B7G	P		5749
CV4010	412 365 100		6.3	3	150	150	7	4.3	B7G	P		5654
CV4011	412 365 100		6.3	2	150	125	5.5	3.5	B7G	P		5725
CV4012	412 366 400		6.3	2	100		11	7	B7G	H		5750
CV4013	214 607 413		6.3	2	150		8.2	5.5	B9A	TT		5670
CV4014	412 361 500		6.3	2	250	250	10	7.5	B7G	P		6064
	412 361 500		6.3	1.5	200	150	4	6.4	B7G	P	See Note E	6064
CV4016	741 226 413		6.3	8.5	250		10.5	2.2	B9A	TT		5814
CV4017	741 226 413		6.3	3	250		1.0	1.2	B9A	TT		5751
CV4019	412 365 400		6.3	12.5	250	250	45	4	B7G	P		6005
CV4022	602 364 100		6.3	8.5	250		10.5	2.2	B7G	T		6135
CV4023	412 365 100		6.3	1	250	150	10.6	5.2	B7G	P		6AU6WA
CV4024	741 226 413		6.3	2	250		10	5.5	B9A	TT		12AT7WA
CV4026	020 908 030		5				60		AO8	RR		5R4WGA
CV4027	020 908 030		5				60		AO8	RR		5Y3WGTA

Valve Data for Naval 'N' Series Valves

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
NR15	642 300 000		4	0	100		2	1.0	B4	T		PM3
NR15A	642 300 000		4	1	100		4.5	2.0	B4	T		PM40X
NR16	642 300 000		4	6	100		18	1.7	B4	T		PM254
NR16A	642 300 000		4	6	100		18	1.7	B4	T		PM254
NR17	642 300 000		4	0	75		0.7	0.2	B4	T		
NR22	542 300 000	A_1	4	0	150	75	3.5	1	B4	P		PM14
NR23	542 300 000	A_1	4	0	150	75	3.5	1	B4	P		PM14
NR26	642 310 000		4	0	100		7	2.5	B5	T		MHL4
NR27	642 310 000		4	0	100		15	3.5	B5	T		104V
NR28	642 300 000		2	7.5	150		10	1.7	B4	T		215P
NR31	642 310 000		4	0	100		7.5	3.5	B5	T		MH4
NR35	447 230 600		2		100		18	1.5	B7	TT	check for balance	PM2BA
NR37	542 310 000	A_1	4	1.5	200	100	4.8	2	B5	P		MS4
NR38	542 310 000	A_1	4	1.5	200	100	4.3	1.6	B5	P		VMS4
NR39	642 350 000		2	3	100	100	3.8	1.7	B5	P		PT2
NR41	041 230 500	A_1	2	0	150	60	2.9	1.1	B7	P		210VPT
NR42	642 300 000		2	3	100		4.5	2.2	B4	T		LP2
NR43	642 350 000		4	0	150	150	43	1.6	B5	P	min fig for mA/V	PM24A
NR44	642 300 000		4	32	250		60	6	B4	T		PX4
NR45	041 231 500	A_1	4	2	200	100	8	2.7	B7	P		VMP4G
NR46	892 310 000		4				1		B5	DD		D41
NR47	642 300 000		(5)	31	400		62.5	7.5	B4	T		PX25
NR48	026 890 310	G_1	6.3	5.5	250		5	2	AO8	DDT		EBC33
NR49	026 510 310	G_1	6.3	2	100		3	1.8	AO8	P		EF36
NR51	041 231 500	A_1	4	2	200	100	3.7	2.5	B7	P		VP4A
NR52	642 310 000		4	4.5	250		6.5	3.5	B5	T		354V
NR53	045 231 600		4	12.5	250	250	52	2	B7	P		Pen 4VA
NR55	000 231 600	G_1	13	3	250		10	4	B7	T		4D1
NR57	642 310 000		4	12	200		19	3.2	B5	T		TT4
NR58	602 310 000	G_1	4	3	250		6.5	2.5	B5	T		V312
NR59	045 231 600		(5)	3.5	250	250	40	10	B7	P		KT41
NR60	000 231 600	G_1	4	2	250		0.6	1.5	B7	T		H42
NR61	061 231 500	G_1	4	3	250	100	7.5	1.5	B7	P		W42
NR64	026 500 310	G_1	6.3	3	250	90	8	2.8	AO8	P		KTW62
NR65	041 231 500	A_1	4	2	200	100	6.5	2.6	B7	P	min fig for mA/V	AC/S2 Pen
NR66	892 310 000		4				1		B5	DD		D41
NR67	026 540 310	G_1	6.3	3	250	100	5.3	1.1	AO8	H		X64
NR68	026 890 310	G_1	6.3	3	250		1.1	1.2	AO8	DDT		DH63
NR69	026 540 310		6.3	22	250	250	See Note	H	AO8	TI	Ra=1MΩ	Y63
NR70	041 231 500	A_1	4	1.5	200	100	4.8	2.8	B7	P		MS/Pen
NR71	041 231 500	A_1	4	2	250	125	5.4	2.8	B7	P		MS/Pen T
NR72	005 231 600	G_1	(5)	4.4	250	250	40	10.5	B7	P		N43

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
NR73	026 447 310		6.3	4.6	250		6	2.3	A08	TT		ECC31
NR74	045 231 000	A_1	(4.5)	6.9	300	225	63	8.5	B7	P		AC6 Pen
NR75	042 310 000	A_1	4	0	100			7	B5	T		ACP4
NR76	060 231 500	G_1	4	2.5	250	250	8	7.5	B7	P		KTZ41
NR77	026 540 310		6.3	15	250	250	72	5.5	AO8	P		EL35
NR78	026 040 310		6.3	8	250		8	2	AO8	T		6C5
NR79	026 510 310	G_1	6.3	2.3	250	150	10	7.5	AO8	P		Z62
NR80	020 000 310	A_1G_1	6.3	5.5	250		14	3	AO8	T	See Note B	E1148
NR81	026 510 310	G_1	6.3	3	250	100	7	1.4	AO8	P		6K7G
NR82	027 546 310	G_1	6.3	1	100		8	2.5	AO8	TH		X65
				3	250	100	4	1.2				
NR83	026 510 310	G_1	6.3	3	250	100	2	1.2	AO8	P		6J7
NR84	645 231 700	G_1	4	6	150		5	1.4	B7	TH		X41
				3	250	75	2.3	1.4				
NR85	026 540 310		6.3	16.5	250	250	34	2.5	AO8	P		KT63
NR86	026 500 310	G_1	6.3	3	250	100	7.5	1.5	AO8	P		KTW63
NR87	869 231 500	G_1	(5)	8.5	250	250	40	9	B7	DDP		AC5/ PenDD
NR94	042 310 000	A_1	4	1	100			7	B5	T		ACTP4
NT17	642 300 000		(5)	0	150		40	2.5	B4	T		
NT20	642 300 000		6.3	0	150		55	3.2	B4	T		PM256
NT37	642 310 000		6.3	13.5	300		50	9	B5	T		4033A
NT40	642 300 000		(5)	30	400		62	7.5	B4	T		DET 5
NT62	642 350 000		(5)	25	200	200	87	3	B5	P		PM24D
NT68	642 300 000		4	0	150		75	3	B4	T		
NT82	642 300 000		2	7.5	100		8	2.1	B4	T		P2
NU3	892 300 000		(5)				60		B4	RR		U12/14
NU12	892 300 000		(5)				120		B4	RR		U18
NU15	802 310 000		40				120		B5	R		ID5
NU17	892 300 000		(5)				60		B4	RR		IW4
NU18	See Page 44											
NU20	020 809 030		(5.7)				60		AO8	RR		U50
NU33	See Page 44											
NU34	See Page 44											

Valve Data for Air Force 'V' Series Valves

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
VI 77	026 540 310		6.3	5	250	250	See Note H		AO8	TI	Ra=2MΩ	EM31
VI 103	026 540 310		6.3	22	250	250	See Note H		AO8	TI	Ra=1MΩ	Y63
VR18	542 300 000	A_1	2	0.5	150	60	2.2	1.1	B4	P		215SG
VR19	642 300 000		2	7.5	150		10	1.7	B4	T		215P
VR21	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
VR22	642 300 000		2	6	150		5	2.4	B4	T		220Pa
VR27	642 300 000		2	4.5	150		48	1.4	B4	T		210LF
VR28	542 300 000	A_1	2	0	150	60	5	1.6	B4	P		220VSG
VR32	446 230 700		2	0	100		1.2		B7	TT	check for balance	220B
VR35	447 235 600		2	4.5	150	150	11.5	2.3	B7	PP		QP21
VR37	642 310 000		4	0	100		7.5	3.6	B5	T		MH4
VR38	642 310 000		4	0	100		7	2.5	B5	T		MHL4
VR40	642 300 000		4	3	400		62.5	7.5	B4	T		PP5/400
VR41	542 300 000	A_1	2	1	150	90	2.5	1.4	B4	P		PM12M
VR44	682 390 000	G_1	2	0	100		2.3	1.2	B5	DDT		210DDT
VR49	041 230 500	A_1	2	0	150	60	3	1.0	B7	P		210SPT
VR53	026 510 310	G_1	6.3	2.5	250	100	6	2.2	AO8	P		EF39
VR54	029 180 310		6.3				5		AO8	DD		EB34
VR55	026 890 310	G_1	6.3	5.5	250		5	2	AO8	DDT		EBC33
VR56	026 510 310	G_1	6.3	2	250	100	3	1.8	AO8	P		EF36
VR57	026 545 310	G_1	6.3	2	250	75	2.8	1.8	AO8	O		EK32
VR65	216 510 030	G_1	6.3	1.8	200	200	8	8.5	MO8	P		SP61
VR65A	216 510 030	G_1	4	1.8	200	200	8	8.5	MO8	P		SP41
VR66	216 040 030		6.3	9	200		15	4.0	MO8	T		P61
VR67	026 040 310		6.3	8	250		9	2.6	AO8	T		L63
VR78	123 000 000	D_1	4				5		B3G	D		DI
VR82	645 230 700	G_1	2	3	100		1.7	1.2	B7	TH		220TH
				0	150	60	0.6	0.6				
VR83	041 230 500	A_1	2	0	150	60	2.9	1.1	B7	P		210VPT
VR91	256 101 403		6.3	2	250	250	10	6.5	B9G	P		EF50
VR92	123 000 000	D_1	6.3				5		B3G	D		EA50
VR99	027 546 310	G_1	6.3	1	100		8	2.5	AO8	TH		X66
				3	250	100	4	1.2				
VR99A	027 546 310	G_1	6.3	2	100		5.4	2.2	AO8	TH		ECH35
				2	250	100	5	2.4				
VR100	026 500 310	G_1	6.3	3	250	75	8	2.7	AO8	P		KTW62
VR101	026 980 310	G_1	6.3	5	200		11.5	3	AO8	DDT		MHLD6
VR102	027 146 310	G_1	6.3	12	200		12	2.5	AO8	TT		BL63
VR106	061 231 500	G_1	13	3	250	125	9.5	1.6	B7	P		9D2
VR107	645 231 700	G_1	13	20	200	100	4		B7	H		15D2
				3	250	100	3.5	0.7				

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
VR108	061 231 500	G_1	13	3	250	100	2.3	1.2	B7	P		8D2
VR109	000 231 600	G_1	13	3	250		10	4	B7	T		4D1
VR116	216 510 030	G_1	6.3	4	200	200	7	4	MO8	P		V872
VR117	642 310 000		4	2.5	200		5.4	3.1	B5	T		41MTL
VR118	642 350 000		2	3	100	100	3.8	1.7	B5	P		KT2
VR119	982 310 000		4				5		B5	DD		DDL4
VR122	642 310 000		4	11.5	200		40	7.5	B5	T		41MXP
VR124	041 231 500	A_1	4	1.5	200	100	4.8	2.8	B7	P		MS/Pen
VR125	061 231 500	G_1	4	2	250	125	5.4	2.8	B7	P		MS/Pen B
VR126	061 231 500	G_1	4	2	250	100	7	3.2	B7	H		4SH
VR129	041 231 500	A_1	4	2	250	125	5.4	2.8	B7	P		MS/Pen T
VR130	206 040 030		2	0	100		1.4	1.5	MO8	T		HL23
VR135	020 000 310	A_1G_1	6.3	5.5	250		14	3	AO8	T	See Note B	E1148
VR136	265 114 113		6.3	1.5	250	250	10	7.7	B9G	P		RL7
VR137	241 600 003		6.3	2.6	250		10	6.5	B9G	T		EC52
VR502	026 540 310		25	7.5	150	125	75	9	AO8	P		KT32
VR503	326 540 310		13	13.3	200	200	60	10	AO8	P		KT33C
VR505	642 310 000		4	0	100		6.8	6	B5	T		MH41
VT20	642 300 000		2	7.5	150		11	1.8	B4	T		220P
VT23	642 300 000		2	18	150		22	2.2	B4	T		230XP
VT45	642 300 000		2	10	200		15.5	2.7	B4	T		X56
VT46	642 350 000		4	22	400	300	62.5	6.5	B5	P		PT25H
VT50	642 300 000		2	0	100		3	1.7	B4	T		HL2K
VT51	642 350 000		2	9	150	150	18	2.2	B5	P		Pen 220A
VT52	026 500 310	G_1	6.3	18.5	250	250	30	2.8	AO8	P		EL32
VT60	254 130 000	A_1	6.3	12.5	300	250	83	7.1	UX5	P		807
VT61	204 140 300	A_1A_2	6.3	7	250		21	2.8	UX7	TT		DET19
VT61A	442 310 000	A_1A_2	12.6	17	300		17	3.2	B5	TT		TV03-10
VT73	020 600 310	G_1	6.3	2	250		1	1.5	AO8	T		H63
VT74	026 500 310	G_1	6.3	3	250	100	2	1.2	AO8	P		KTZ63
VT75	026 540 310		6.3	15	250	250	85	6.2	AO8	P		KT66
VT75B	041 231 500	A_1	(5)	15.7	250	250	85	6.2	B7	P		KT44
VT79	542 310 000	A_1	6.3	12	250	250	100	6.5	B5	P		KT8
VT80	415 230 000	A_1	5.7	20	250	250	50	4.2	B7	P		4307A
VT104	542 310 000	A_1	6.3		300	300	40	3.1	B5	P		PT15
VT105	642 310 000		6.3	8	200		25	3.8	B5	T		ML6
VT127	210 540 030	A_1	(4.5)	0	100	100		8.5	MO8	P		Pen 46
VT501	021 450 310	A_1	6.3	11	250	125	30	3.5	AO8	P		E1192
VU39	892 300 000		(5)				60		B4	RR		MU12/14
VU39A	892 300 000		(5)				60		B4	RR		
VU64	892 300 000		(5)				60		B4	RR		U12/14
VU71	030 809 020		(5.7)				120		AO8	RR		U52
VU111	See Page 44											
VU113	See Page 44											
VU120	See Page 44											

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Neg Grid Volts	Anode Volts	Screen Volts	Ia mA	mA/V	Valve Holder	Type	REMARKS	Civ. Equiv
VU133	See Page 44											
VU134	See Page 44											
VU508	See Page 44											
VW36	642 300 000		2	6	150		5	2.4	B4	T		220PA
VW42	642 300 000		2	0	100		4.4	1.1	B4	T		210LF
VW48	542 300 000	A_1	2	0	150	60	2.5	1.1	B4	P		215 G

Test Data for High Voltage Rectifiers.

The following procedure should be adopted when testing high voltage rectifiers.

Make insulation checks with valve cold and hot as stated in paragraphs 1 and 2 of the Abbreviated Working Instructions.

Then set Anode and ***Screen*** Voltage switches to their minimum value (i.e. 20) and Anode Current Controls to figure shown in Data column. With Circuit Selector set to TEST and Anode Selector at A_1 increase Anode Volts setting until indicating meter reads in a forward direction.

The setting of the Anode Voltage switch for a good valve should not exceed the figure given in column headed Anode Volts.

When checking full wave or voltage doubler rectifiers, check second Anode with Anode Selector at A_2.

NOTE the valve should be heated to working temperature before setting Circuit Selector to position TEST and only left at this position for sufficient time to take a reading.

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Anode Volts (Max.)	Ia mA (Min.)	Valve Holder	Type	REMARKS	Civ. Equiv.
AU4	002 300 000	A_1	4	40	35	B4	R		U17
AU5	002 300 000	A_1	4	150	70	B4	R		V1907
AU8	200 000 030	A_1	(3)	150	10	M08	R		U22
CV20	002 300 000	A_1	(5)	60	100	B4	R		V1906
CV54	002 300 000	A_1	4	40	40	B4	R		V960
CV121	002 300 000	A_1	(5)	100	90	B4	R		V1920
CV187	002 300 000	A_1	(5)	40	70	B4	R		U19
CV235	002 300 000	A_1	(5)	40	100	B4	R		U23
CV261	112 311 100	A_1	4	90	12	B7G	R		
CV277	020 000 300	A_1	4	40	100	A08	R		
CV317	322 322 222	A_1	4	60	80	B9G	R		
CV371	112 311 100	A_1	4	60	50	B7G	R		
CV404	030 000 020	A_1	4	100	90	A08	R		
CV426	230 000 000	A_1	6·3	100	9	Special	R	See Note J	EY51
CV597	300 200 000	A_1	(3)	100	10	UX4	R		2X2A
CV803	020 000 300	A_1	(3)			A08	R		2V3
CV804	020 000 300	A_1	(3)			A08	R		2V3G
CV812	320 200 000	A_1	2·5	60	10	UX4	R		3B24
CV1001	002 300 000	A_1	(2·5)	200	50	B4	R		SU2150A
CV1111	002 300 000	A_1	4	150	70	B4	R		V1907

VALVE	SELECTOR SWITCH No.	T.C.	Vf.	Anode Volts (Max.)	Ia mA (Min.)	Valve Holder	Type	REMARKS	Civ. Equiv.
CV1113	002 300 000	A_1	4	40	35	B4	R		U17
CV1120	002 300 000	A_1	(2·5)	200	50	B4	R		SU2150A
CV1133	002 300 000	A_1	4	80	90	B4	R		V960
CV1134	002 300 000	A_1	4	100	10	B4	R		HVR2
CV1290	002 300 000	A_1	(2·5)	200	50	B4	R		SU2150A
CV1291	002 300 000	A_1	(2·5)	100	10	B4	R		HVR2A
CV1356	200 000 030	A_1	3	150	10	M08	R		U22
CV1454	072 323 600		2	40	20	B7	RR	Test A_1 and A_2	225DU
CV1508	002 300 000	A_1	(5)	40	100	B4	R		V1913
CV1921	030 000 220	A_1	2	20	0·5	A08	R		U24
CV2115	020 000 300	A_1	1·25	200	6	A08	R		1B3
CV2180	020 000 300	A_1	2·5	100	40	A08	R		
CV2510	232 232 300	A_1	1·4			B7G	R		1Z2
CV2640	672 300 000		4	40	20	B4	RR	Test A_1 and A_2	405BU
CV2718	123 000 080		4			8SC	R		1876
CV3750	200 000 030	A_1	2	60	4	M08	R		U22
CV3751	002 300 000	A_1	2	60	4	B4	R		U21
NU18	002 300 000	A_1	4	40	35	B4	R		U17
NU33	002 300 000	A_1	(2·5)	200	50	B4	R		SU2150A
NU33A	002 300 000	A_1	(2·5)	100	10	B4	R		HVR2A
NU34	002 300 000	A_1	4	100	10	B4	R		HVR2
VU111	002 300 000	A_1	4	150	70	B4	R		V1907
VU113	002 300 000	A_1	4	40	35	B4	R		U17
VU120	002 300 000	A_1	(2·5)	200	50	B4	R		SU2150A
VU133	002 300 000	A_1	4	80	90	B4	R		V960
VU134	002 300 000	A_1	4	100	10	B4	R		HVR2
VU508	002 300 000	A_1	(5)	40	100	B4	R		V1913

SERVICE EQUIVALENTS OF CIVILIAN TYPES.

Civilian No.	Service No.
AC/HLDD	CV2813
ACP	CV2815
ACP4	CV207
ACSG	CV2822
AC/SP1	CV2820
AC/SP3	CV2823
AC/SP3RH	CV1430
AC/TH1	CV2830
AC/VP1	CV518
AC/VP2	CV2832
AC/2HL	CV2806
AC/2PEN	CV2808
AC/5PEN	CV2809
AL50	CV9
AZ1	CV2860
AZ2	CV2861
AZ31	CV2862
AZ41	CV3892
A1820	CV409
BR1	CV692
B21	CV2864
B65	CV1988
CBL31	CV1463
CE72	CV709
CL4	CV2875
CL33	CV1401
CY31	CV1402
DAC32	CV1818
DAF76	CV2104
DAF91	CV784
DA30	CV563
DA90	CV753
DCC90	CV808
DC70	CV2275
DDL4	CV1691
DDR2	CV173
DDT	CV2890
DD41	CV1403
DD620	CV2889
DET5	CV384
DET20	CV6
DF1	CV2907
DF33	CV1821
DF64	CV2260
DF66	CV2107
DF70	CV386
DF72	CV2101
DF73	CV2103
DF91	CV785
DF92	CV1758
DH73	CV2909
DK32	CV1800
DK91	CV782
DL2	CV2911
DL35	CV1803
DL63	CV2912
DL66	CV2106
DL70	CV2105
DL71	CV385
DL72	CV387
DL73	CV2299
DL75	CV2102
DL91	CV783
DL92	CV820
DL93	CV807
DL95	CV818
DL98	CV2240
DW4/350	CV1796
DW4/500	CV1064
D42	CV557
D63	CV554
D77	CV140
EAC91	CV137
EAF42	CV3883
EA50	CV1092
EA76	CV469
EBC3	CV1428
EBC21	CV347
EBC33	CV1055
EBC41	CV3882
EBC90	CV452
EBF2	CV2925
EBF32	CV501
EBL31	CV2926
EB34	CV1054
EB41	CV3881
EB91	CV140
ECC31	CV1285
ECC32	CV181
ECC35	CV569
ECC40	CV3884
ECC81	CV455
ECC82	CV491
ECC83	CV492
ECC91	CV858
ECH22	CV302
ECH35	CV1347
ECH42	CV3888
ECH81	CV2128
EC31	CV1433
EC52	CV1137
EC53	CV1197
EC54	CV66
EC70	CV468
EC80	CV1886
EC81	CV1865
EC90	CV133
EC91	CV417
EF9	CV1427
EF22	CV303
EF36	CV1056
EF37	CV358
EF39	CV1053
EF40	CV3885
EF41	CV3886
EF42	CV3887
EF50	CV1091
EF52	CV327
EF54	CV380
EF55	CV173
EF70	CV467
EF71	CV475
EF72	CV465
EF73	CV466
EF86	CV2901
EF91	CV138
EF92	CV131
EF93	CV454
EF95	CV850
EK32	CV1057
EK90	CV453
EL2	CV1429
EL22	CV304
EL32	CV1052
EL33	CV2938
EL35	CV1286
EL36	CV2940
EL37	CV586
EL38	CV450
EL41	CV3889
EL42	CV3890
EL50	CV2941
EL70	CV471
EL81	CV271
EL90	CV1862
EL91	CV136
EL821	CV2127
EM4	CV1434
EM34	CV394
EM35	CV1103
EY51	CV426
EY70	CV473
EY84	CV2235
EY91	CV135
EZ22	CV346
EZ35	CV574
EZ40	CV3891
EZ90	CV493
E1320	CV51
E1416	CV281
FVD7	CV404
FW4-800	CV31
FW4-500	CV1264
GZ30	CV2748
GZ32	CV593
GZ33	CV378
HD24	CV2985
HLDD1320	CV3503
HL2	CV2991
HL13C	CV1109
HL23DD	CV2995
HL41	CV24
HL41DD	CV2996
HL133	CV2998
HL133DD	CV2999
HL210	CV3500
HL1320	CV3502
H2	CV2977
H12	CV2978
H30	CV2979
HL92	CV1959
HVR2	CV1134
IW4/500	CV1039
IT4	CV785
IT5	CV1829
KTZ41	CV3529
KTZ73	CV3530
KT30	CV3519
KT31	CV3520
KT61	CV1438
KT67	CV437
LD210	CV502
LP2	CV548
L2	CV3531
LS650	CV391
L21	CV3532
L22DD	CV3533
L30	CV3534
L63	CV1933
ME41	CV3565
MHD4	CV3546
MH4	CV399
MS4B	CV3553
MSPen	CV244
MU1	CV3567
MVSPenB	CV3572
PenA4	CV1329
PenB4	CV3626
Pen4DD	CV519
Pen4VA	CV1174
Pen25	CV65
Pen36C	CV1672
Pen44	CV3630
Pen45	CV1407
Pen45DD	CV3631
Pen231	CV3633

Civilian No.	Service No.
Pen383	CV1456
Pen1340	CV3635
PM1HL	CV3641
PM1F	CV3642
PM2A	CV3643
PM2DX	CV3645
PM2HL	CV1050
PM12V	CV1319
PM22	CV3649
PM22A	CV3647
PM22D	CV3578
PM24A	CV1167
PM24D	CV1237
PM24E	CV3648
PM202	CV185
PT425	CV3656
PV1-35	CV3658
P41	CV1408
P220	CV3620
P410	CV3621
QP21	CV1035
QP22B	CV1035
QP25	CV456
QVO3-12	CV2129
QVO4-7	CV309
QVO5-25	CV124
QQZO4-15	CV1838
RL37	CV66
R231	CV378
SG215	CV3702
SP2	CV1049
SP4	CV1324
SP4B	CV3703
SP13C	CV3704
SP61	CV118
S23	CV3691
S25A	CV16
S215	CV3695
S215A	CV3696
TDD2A	CV3726
TDD4	CV3727
TDO3-5	CV354
TDO3-10	CV273
TP26	CV3735
TSP4	CV560
TT4	CV1179
TT12	CV524
TV4	CV1412
T4D	CV3721
UL41	CV1977
UR1C	CV1267
UR3C	CV3758
UU4	CV3759
UU6	CV1413
UU7	CV3761
UU9	CV1855
U5	CV3743
U10	CV1443
U19	CV187
U20	CV31
U21	CV3751
U22	CV3750
U23	CV235
U30	CV3752
U31	CV3753
VP2	CV3787
VP2B	CV520
VP4A	CV1169
VP13C	CV3790
VP22	CV3792
VP41	CV21
VP133	CV1457
VP1322	CV3796
V312	CV3766
V625	CV93
V630	CV201
V960	CV54
V1120	CV72
V1120B	CV73
V1906	CV20
V1920	CV121
WD30	CV3810
W21 (B4Base)	CV171
W21 (B7Base)	CV3804
W31	CV3806
XP1.5	CV176
XP2	CV3832
XSG1.5	CV175
XSG2	CV3833
Z21 (B4Base)	CV3836
Z21 (B7Base)	CV3837
Z62	CV3838
Z66	CV3839
Z77	CV138
1A3	CV753
1A4P	CV754
1A5G	CV755
1A5GT	CV756
1A6	CV757
1A7G	CV1800
1A7GT	CV1802
1B4P	CV758
1B5/25S	CV759
1B7GT	CV760
1C5G	CV1803
1C5GT	CV1805
1D5	CV764
1D5GP	CV705
1D5GT	CV1806
1D7G	CV765
1D8GT	CV1811
1E5GP	CV766
1E7G	CV1812
1F4	CV767
1F5G	CV768
1F6	CV769
1F7GV	CV770
1G4GT	CV1817
1G5G	CV771
1G6G	CV772
1G6GT	CV773
1H4	CV774
1H5G	CV1818
1H5GT	CV1820
1LA6	CV775
1LB4	CV776
1LC5	CV777
1LC6	CV778
1LD5	CV779
1LH4	CV780
1L4	CV1758
1N5G	CV1821
1N5GT	CV1823
1P5GT	CV728
1Q5G	CV1824
1Q5GT	CV1826
1R5	CV782
1S4	CV783
1S5	CV784
2A3	CV1831
2A5	CV1834
2A6	CV1769
2A7	CV787
2B7	CV1837
2C22	CV792
2C26	CV802
2C26A	CV1759
2D2	CV794
2D4A	CV795
2D13C	CV796
2V3	CV803
2V3G	CV804
2X2A	CV597
2Y2	CV597
3A4	CV807
3A5	CV808
3A/141J	CV82
3A/148J	CV88
3B7	CV811
3B21	CV2959
3B24	CV812
3B/102B	CV84
3D6	CV815
3Q4	CV818
3Q5GT	CV819
3S4	CV820
4THA	CV826
4TPB	CV828
4TSP	CV830
5B/251M	CV428
5R4GY	CV717
5T4	CV1846
5U4G	CV575
5U4GT	CV841
5V4G	CV729
5W4	CV1849
5W4G	CV842
5W4GT	CV503
5X4	CV1852
5X4G	CV1851
5Y3G	CV1854
5Y3GT	CV1856
5Y4G	CV1857
5Z3	CV1861
5Z4	CV1864
5Z4G	CV1863
6AB5	CV843
6AB7	CV1873
6AC7	CV660
6AD7G	CV1878
6AG5	CV848
6AG7	CV1882
6AJ5	CV995
6AJ7	CV849
6AK5	CV850
6AK6	CV1762
6AK7	CV1784
6AL5	CV283
6AQ4	CV417
6AT6	CV452
6A3	CV730
6A6	CV1867
6A7	CV1870
6A8	CV579
6A8G	CV578
6A8GT	CV580
6BA6	CV454
6BE6	CV453
6B4G	CV851
6B6G	CV1887
6B7	CV1891
6B8	CV1894
6B8G	CV1893
6C4	CV133
6C5	CV582
6C5G	CV581
6C5GT	CV583
6C6	CV585
6C7	CV854
6C8G	CV1896
6D6	CV1900
6D7	CV1776
6E5	CV1906
6F5	CV1909

Civilian No.	Service No.
6S5G	CV1908
6F5GT	CV1910
6F6	CV1912
6F6G	CV1911
6F6GT	CV731
6F7	CV1915
6F8G	CV1917
6F13	CV1839
6G6G	CV1926
6G8G	CV856
6H6	CV1930
6H6G	CV1929
6H6GT	CV1931
6J4	CV1763
6J5	CV1933
6J5G	CV1932
6J5GT	CV1934
6J6	CV858
6J7	CV1936
6J7G	CV1935
6J7GT	CV1937
6J8G	CV859
6K5G	CV860
6K5GT	CV861
6K6G	CV1938
6K6GT	CV1940
6K7	CV1942
6K7G	CV1941
6K7GT	CV1943
6K8	CV1945
6K8G	CV1944
6K8GT	CV1946
6L5G	CV862
6L6	CV1948
6L6G	CV1947
6L7	CV1951
6L7G	CV1950
6L19	CV1850
6N7	CV1957
6N7G	CV1956
6N7GT	CV1958
6P5GT	CV1819
6P7G	CV864
6P25	CV1853
6Q7	CV588
6Q7G	CV587
6Q7GT	CV589
6R6G	CV1960
6R7	CV1963
6R7G	CV1962
6R7GT	CV1964
6SA7	CV1966
6SA7GT	CV1967
6SC7	CV1969
6SC7GT	CV1970
6SD7GT	CV865
6SF5	CV1972
6SF5GT	CV1973
6SG7	CV1978
6SH7	CV594
6SH7GT	CV595
6SJ7	CV591
6SJ7G	CV590
6SJ7GT	CV592
6SJ7Y	CV866
6SK7	CV1981
6SK7GT	CV1982
6SL7GT	CV1985
6SN7	CV278
6SN7GT	CV1988
6SQ7	CV1990
6SQ7GT	CV1991
6SR7	CV867
6SS7	CV1993
6ST7	CV1996
6ST7G	CV1995
6S7G	CV1974
6T7G	CV500
6U5	CV504
6U7	CV706
6V6	CV510
6V6G	CV509
6V6GT	CV511
6V7G	CV870
6W7G	CV512
6X4	CV493
6X5	CV573
6X5G	CV572
6X6GT	CV574
6Y3G	CV1816
6Y6	CV515
6ZY5G	CV873
6Z4	CV619
6Z5	CV871
6Z7G	CV872
7A4	CV1770
7A6	CV876
7A7	CV877
7A7LM	CV877
7A8	CV878
7B4	CV879
7B5	CV880
7B5LT	CV881
7B6LM	CV882
7B7	CV522
7B8LM	CV883
7C5	CV885
7C5LT	CV866
7C6	CV887
7C7	CV1777
7D5	CV1425
7D8	CV889
7D9	CV136
7E5	CV891
7E7	CV892
7F7	CV893
7G7	CV894
7H7	CV895
7J7	CV897
7K7	CV896
7N7	CV898
7Q7	CV899
7R7	CV900
7W7	CV902
7Y4	CV901
7Z4	CV1790
8D2	CV1108
8D3	CV138
9D6	CV131
10	CV603
11D3	CV1419
12AH7	CV529
12AT7	CV455
12AU7	CV491
12AX7	CV492
12A5	CV908
12A6	CV525
12A6GT	CV526
12A7	CV909
12A8	CV910
12B8	CV911
12C8	CV531
12E1	CV345
12H6	CV916
12J5	CV534
12J5GT	CV535
12J7GT	CV917
12K7GT	CV918
12K8	CV703
12SA7	CV537
12SA7GT	CV538
12SC7	CV540
12SF5	CV919
12SF5GT	CV920
12SF7	CV921
12SG7	CV594
12SH7	CV922
12SJ7	CV697
12SJ7GT	CV698
12SK7	CV543
12SK7GT	CV544
12SL7GT	CV924
12SN7GT	CV925
12SQ7	CV546
12SQ7GT	CV547
12SR7	CV700
12Z3	CV927
13SPA	CV929
14F7	CV930
15	CV931
24A	CV936
25A6	CV549
25A6GT	CV550
25A7	CV937
25B6G	CV939
25B8GT	CV940
25L6	CV552
25L6G	CV551
25L6GT	CV553
25SN7	CV423
25Y5	CV942
25Z5	CV555
25Z6	CV558
25Z6GT	CV559
27	CV944
28D7	CV945
28D7GT	CV946
30	CV604
31	CV947
32	CV711
32L7GT	CV948
33	CV949
33A/138A	CV18
34	CV1751
35	CV1752
35A5LT	CV1753
35L6	CV561
35L6GT	CV562
35Z3	CV564
35Z3GT	CV565
35Z3LT	CV726
35Z4GT	CV2500
35Z5	CV567
35Z5GT	CV568
36	CV1775
37	CV606
38	CV712
39	CV1771
40	CV2501
40Z5	CV2530
41	CV608
41FP	CV2502
41MH	CV2503
41MHL	CV2504
41MP	CV1458
41MPT	CV2506
42	CV609
42SPT	CV1444
43	CV2514
45	CV610
451U	CV2529
45Z5GT	CV2530
46	CV2531
47	CV1772

Civilian No.	Service No.
49	CV2532
50L6G	CV2534
50L6GT	CV571
50Y6GT	CV805
53	CV2535
53A	CV2536
55	CV2537
56	CV611
57	CV612
58	CV613
59	CV2538
71A	CV2541
72	CV709
75	CV614
76	CV615
77	CV616
78	CV2544
79	CV2545
80	CV617
81	CV2546
83V	CV2547
84	CV2548
85	CV2549
89	CV833
117L7GT	CV2556
117Z6GT	CV2558
164V	CV2562
210DET	CV2569
210HF	CV2570
210HL	CV2571
210VPA	CV2574
210VPT (B4 Base)	CV171
210VPT (B7 Base)	CV1083
220/OT	CV2581
220VS	CV2582
225DU	CV1454
239	CV1771
240B	CV2586
354V	CV1037
405BU	CV2640
420T	CV2511
420TDD	CV2512
460BU	CV2644
560BU	CV2645
802	CV622
807	CV124
836	CV636
843	CV639
879	CV597
1231	CV2707
1282	CV902
1299	CV815
1603	CV652
1610	CV2713
1611	CV653
1612	CV654
1613	CV655
1614	CV2714
1616	CV656
1619	CV723
1620	CV657
1622	CV658
1626	CV1755
1629	CV1756
1655	CV2716
1851	CV599
1852	CV660
1853	CV1873
1876	CV2718
4045A	CV243
4328D	CV245
5641	CV473
5899	CV475
9001	CV1757
9002	CV664
9003	CV665
9006	CV2769

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